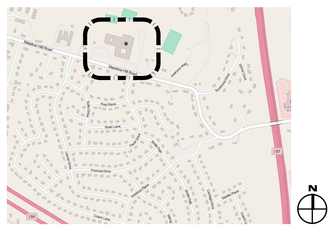


DISTRICT WIDE A/C - ELECTRICAL UPGRADES

NYSED APPROVED OCTOBER 17, 2024
ISSUED FOR BID NOVEMBER 18, 2024
PROCURED THROUGH STATE CONTRACT PROGRAM

124 GRAND STREET
NEWBURGH, NY 12550

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550
NYSED PROJECT CONTROL NUMBER: 44-16-00-01-0-006-015

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550
NYSED PROJECT CONTROL NUMBER: 44-16-00-01-0-035-014

TEMPLE HILL ACADEMY

525 UNION AVENUE
NEW WINDSOR, NY 12553
NYSED PROJECT CONTROL NUMBER: 44-16-00-01-0-036-015

DRAWING SHEET LIST

GENERAL

COVER	COVER SHEET

GIDNEY AVENUE ELEMENTARY SCHOOL

CIVIL

C101	MAP OF TOPOGRAPHIC SURVEY
C130	SITE PLAN EQUIPMENT PAD NORTH
C131	SITE PLAN EQUIPMENT PAD SOUTH

ARCHITECTURAL

A100	BASEMENT FLOOR PLAN
A101	FIRST FLOOR CONSTRUCTION PLAN
A102	SECOND FLOOR CONSTRUCTION PLAN
A103	ROOF PLAN AND ROOF DETAILS
A301	FIRST FLOOR CONST. REFLECTED CEILING PLAN
AD101	FIRST FLOOR DEMOLITION PLAN
AD102	SECOND FLOOR DEMOLITION PLAN
AD301	FIRST FLOOR DEMO. REFLECTED CEILING PLAN
LS100	LIFE SAFETY BASEMENT FLOOR PLAN
LS101	LIFE SAFETY FIRST FLOOR PLAN
LS102	LIFE SAFETY SECOND FLOOR PLAN

STRUCTURAL

S001	STRUCTURAL NOTES
S101	FIRST FLR. WALL PENETRATION PLAN & SECTIONS

MECHANICAL

M001	MECHANICAL LEGEND SHEET
M002	VENTILATION TABLE
MD101	FIRST FLOOR DEMOLITION PLAN
MD102	SECOND FLOOR DEMOLITION PLAN
M101	FIRST FLOOR DUCTWORK PLAN
M102	SECOND FLOOR MECHANICAL PLAN
M103	ROOF MECHANICAL PLAN
M201	FIRST FLOOR PIPING PLAN
M202	SECOND FLOOR PIPING PLAN
M401	FIRST FLOOR PIPING PLAN - ENLARGED VIEWS
M501	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M701	MECHANICAL CONTROLS

ELECTRICAL

E001	ELECT. NOTES, SYMBOL LEGEND & ABBREVIATIONS
E002	ELECT. NOTES, SYMBOL LEGEND & ABBREVIATIONS
E100	BASEMENT ELECTRICAL POWER PLAN
E101	FIRST FLOOR ELECTRICAL POWER PLAN
E102	SECOND FLOOR ELECTRICAL POWER PLAN
E103	FIRST FLOOR ELECTRICAL ENLARGED POWER PLANS
E500	ELECTRICAL DETAILS
E600	ELECTRICAL PANEL SCHEDULES
E601	ELECTRICAL PANEL SCHEDULES
E631	ELECTRICAL SYSTEM SCHEDULES
E700	ELECTRICAL ONE-LINE DIAGRAM
ED100	FIRST FLOOR ELECTRICAL DEMOLITION PLAN
ED101	SECOND FLOOR ELECTRICAL DEMOLITION PLAN

HAZARDOUS MATERIALS

H102	SECOND FLOOR HAZARDOUS MAT'L. REMOVAL PLAN

MEADOW HILL GEM SCHOOL

ARCHITECTURAL

A100	BASEMENT FLOOR PLAN
A101	FIRST FLOOR CONSTRUCTION PLAN
A102	SECOND FLOOR CONSTRUCTION PLAN
A103	ROOF PLAN AND ROOF DETAILS
A201	DETAILS
A301	FIRST FLOOR CONST. REFLECTED CEILING PLAN
A302	SECOND FLOOR CONST. REFLECTED CEILING PLAN
AD101	FIRST FLOOR DEMOLITION PLAN
AD102	SECOND FLOOR DEMOLITION PLAN
AD301	FIRST FLOOR DEMO. REFLECTED CEILING PLAN
AD302	SECOND FLOOR DEMO. REFLECTED CEILING PLAN
LS100	LIFE SAFETY BASEMENT FLOOR PLAN
LS101	LIFE SAFETY FIRST FLOOR PLAN
LS102	LIFE SAFETY SECOND FLOOR PLAN

STRUCTURAL

S001	STRUCTURAL NOTES
S101	FIRST FLR. & ROOF DUNNAGE & HVAC SUPPORT PLANS
S102	VAULT/LOADING DOCK CEILING & SLAB REPAIR PLAN
S300	SECTIONS
S301	SECTIONS
S302	SECTIONS
S500	DETAILS

MECHANICAL

M001	MECHANICAL LEGEND SHEET
M002	VENTILATION TABLE
MD101	FIRST FLOOR DEMOLITION PLAN
MD102	SECOND FLOOR DEMOLITION PLAN
MD103	ROOF DEMOLITION PLAN
M101	FIRST FLOOR DUCTWORK PLAN
M102	SECOND FLOOR DUCTWORK PLAN
M103	ROOF EQUIPMENT PLAN
M201	FIRST FLOOR PIPING PLAN
M202	SECOND FLOOR PIPING PLAN
M501	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M701	MECHANICAL CONTROLS

ELECTRICAL

E001	ELECT. NOTES, SYMBOL LEGEND & ABBREVIATIONS
E002	ELECT. NOTES, SYMBOL LEGEND & ABBREVIATIONS
E100	BASEMENT ELECTRICAL POWER PLAN
E101	FIRST FLOOR ELECTRICAL POWER PLAN
E102	SECOND FLOOR ELECTRICAL POWER PLAN
E103	ROOF ELECTRICAL POWER PLAN
E500	ELECTRICAL DETAILS
E600	ELECTRICAL PANEL SCHEDULES
E601	ELECTRICAL PANEL SCHEDULES
E602	ELECTRICAL PANEL SCHEDULES
E631	ELECTRICAL SYSTEM SCHEDULES
E632	ELECTRICAL SYSTEM SCHEDULES
E700	ELECTRICAL ONE-LINE DIAGRAM
ED100	FIRST FLOOR ELECTRICAL DEMOLITION PLAN
ED101	SECOND FLOOR ELECTRICAL DEMOLITION PLAN
ED102	ROOF ELECTRICAL DEMOLITION PLAN

HAZARDOUS MATERIALS

H101	FIRST FLOOR HAZARDOUS MAT'L. REMOVAL PLAN
H102	SECOND FLOOR HAZARDOUS MAT'L. REMOVAL PLAN
H103	ROOF HAZARDOUS MAT'L. REMOVAL PLAN

TEMPLE HILL ACADEMY

ARCHITECTURAL

A100	BASEMENT FLOOR PLAN
A101	FIRST FLOOR CONSTRUCTION PLAN
A102	SECOND FLOOR CONSTRUCTION PLAN
A103	ROOF PLAN AND ROOF DETAILS
A201	DETAILS
A301	FIRST FLOOR CONST. REFLECTED CEILING PLAN
A302	SECOND FLOOR CONST. REFLECTED CEILING PLAN
AD101	FIRST FLOOR DEMOLITION PLAN
AD102	SECOND FLOOR DEMOLITION PLAN
AD301	FIRST FLOOR DEMO. REFLECTED CEILING PLAN
AD302	SECOND FLOOR DEMO. REFLECTED CEILING PLAN
LS100	LIFE SAFETY BASEMENT FLOOR PLAN
LS101	LIFE SAFETY FIRST FLOOR PLAN
LS102	LIFE SAFETY SECOND FLOOR PLAN

STRUCTURAL

S001	STRUCTURAL NOTES
S101	FIRST FLR. & ROOF DUNNAGE & HVAC SUPPORT PLANS
S102	VAULT/LOADING DOCK CEILING & SLAB REPAIR PLAN
S300	SECTIONS
S301	SECTIONS
S302	SECTIONS
S500	DETAILS

MECHANICAL

M001	MECHANICAL LEGEND SHEET
M002	VENTILATION TABLE
MD101	FIRST FLOOR DEMOLITION PLAN
MD102	SECOND FLOOR DEMOLITION PLAN
MD103	ROOF DEMOLITION PLAN
M101	FIRST FLOOR DUCTWORK PLAN
M102	SECOND FLOOR DUCTWORK PLAN
M103	ROOF EQUIPMENT PLAN
M201	FIRST FLOOR PIPING
M202	SECOND FLOOR PIPING
M501	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M701	MECHANICAL CONTROLS

ELECTRICAL

E001	ELECT. NOTES, SYMBOL LEGEND & ABBREVIATIONS
E002	ELECT. NOTES, SYMBOL LEGEND & ABBREVIATIONS
E100	BASEMENT ELECTRICAL POWER PLAN
E101	FIRST FLOOR ELECTRICAL POWER PLAN
E102	SECOND FLOOR ELECTRICAL POWER PLAN
E103	ROOF ELECTRICAL POWER PLAN
E500	ELECTRICAL DETAILS
E600	ELECTRICAL PANEL SCHEDULES
E601	ELECTRICAL PANEL SCHEDULES
E631	ELECTRICAL SYSTEM SCHEDULES
E632	ELECTRICAL SYSTEM SCHEDULES
E700	ELECTRICAL ONE-LINE DIAGRAM
ED101	FIRST FLOOR ELECTRICAL DEMOLITION PLAN
ED102	SECOND FLOOR ELECTRICAL DEMOLITION PLAN
ED103	ROOF ELECTRICAL DEMOLITION PLAN

HAZARDOUS MATERIALS

H101	FIRST FLOOR HAZARDOUS MAT'L. REMOVAL PLAN
H102	SECOND FLOOR HAZARDOUS MAT'L. REMOVAL PLAN
H103	ROOF HAZARDOUS MAT'L. REMOVAL PLAN

PROJECT SUMMARY:

ALTERATION LEVEL 1 PER CHAPTER 7 OF THE 2020 EXISTING BUILDING CODE OF NEW YORK STATE

- PORTIONS OF EXISTING MECHANICAL AND ELECTRICAL SYSTEMS ARE TO BE ALTERED AND SHALL BE NO LESS CONFORMING TO THE PROVISIONS OF THE BUILDING CODE THAN THE EXISTING BUILDING WAS PRIOR TO THIS ALTERATION.
- THERE SHALL BE NO RECONFIGURATION OF EXISTING SPACES, AND NO CHANGE TO EXISTING EMERGENCY ESCAPE AND RESCUE OPENINGS. SEE LIFE SAFETY DRAWINGS.

THESE DOCUMENTS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FOLLOWING CODES:
2020 BUILDING CODE OF NEW YORK STATE
2020 EXISTING BUILDING CODE OF NEW YORK STATE
2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
2020 MECHANICAL CODE OF NEW YORK STATE
2020 FIRE CODE OF NEW YORK STATE
2020 PLUMBING CODE OF NEW YORK STATE
NATIONAL ELECTRIC CODE
NATIONAL FIRE CODE NFPA 13
ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION
EXP:
EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:

Revisions

PROJECT NUMBER: 2233600
DRAWN BY: JR
REVIEWED BY: PM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: COVER SHEET
DRAWING NUMBER: COVER

11/15/2024 11:15:43 AM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\PHASE 1 GENERAL\2233600 COVER.dwg

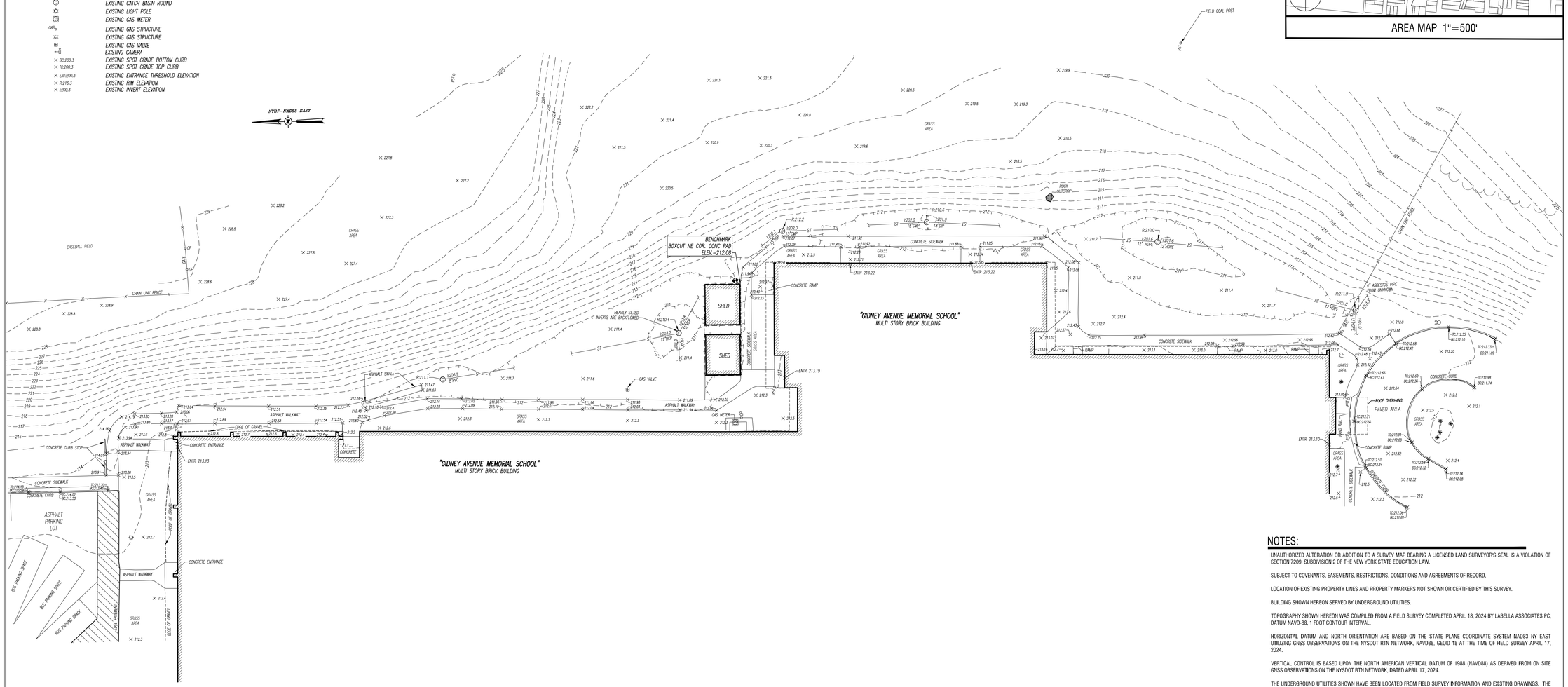
LEGEND

EXISTING CONDITIONS:

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SPOT GRADE
- EXISTING BUILDING
- EXISTING CURB
- EXISTING FENCE
- EXISTING TREE LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND STORM LINE

SYMBOLS:

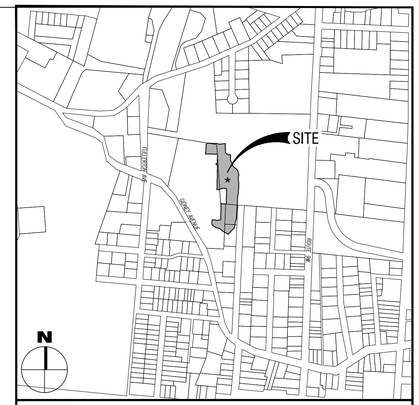
- EXISTING BOLLARD
- EXISTING FENCE POST
- EXISTING GATE POST
- EXISTING T-POST
- EXISTING POST
- EXISTING CONIFEROUS TREE
- EXISTING SHRUB
- EXISTING BENCHMARK
- EXISTING CLEANOUT
- EXISTING DRAINAGE MANHOLE
- EXISTING CATCH BASIN
- EXISTING CATCH BASIN ROUND
- EXISTING LIGHT POLE
- EXISTING GAS METER
- EXISTING GAS STRUCTURE
- EXISTING GAS STRUCTURE
- EXISTING GAS VALVE
- EXISTING CAMERA
- BC=200.3 EXISTING SPOT GRADE BOTTOM CURB
- TC=200.3 EXISTING SPOT GRADE TOP CURB
- ENT=200.3 EXISTING ENTRANCE THRESHOLD ELEVATION
- R=216.3 EXISTING RIM ELEVATION
- I=200.3 EXISTING INVERT ELEVATION



1 C101 TOPOGRAPHIC SURVEY
SCALE: 1" = 20'

N

20 0 20
SCALE IN FEET
1"=20'



AREA MAP 1"=500'

NOTES:

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

SUBJECT TO COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.

LOCATION OF EXISTING PROPERTY LINES AND PROPERTY MARKERS NOT SHOWN OR CERTIFIED BY THIS SURVEY.

BUILDING SHOWN HEREON SERVED BY UNDERGROUND UTILITIES.

TOPOGRAPHY SHOWN HEREON WAS COMPILED FROM A FIELD SURVEY COMPLETED APRIL 18, 2024 BY LABELLA ASSOCIATES PC, DATUM NAVD-88, 1 FOOT CONTOUR INTERVAL.

HORIZONTAL DATUM AND NORTH ORIENTATION ARE BASED ON THE STATE PLANE COORDINATE SYSTEM NAD83 NY EAST UTILIZING GNSS OBSERVATIONS ON THE NYSDOT RTN NETWORK, NAVD88, GEOID 18 AT THE TIME OF FIELD SURVEY APRIL 17, 2024.

VERTICAL CONTROL IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS DERIVED FROM ON SITE GNSS OBSERVATIONS ON THE NYSDOT RTN NETWORK, DATED APRIL 17, 2024.

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

THE CONTRACTOR SHALL COMPLY WITH NEW YORK STATE INDUSTRIAL CODE RULE 753 - 48 HOURS PRIOR TO DIGGING CALL DIGSAFELY NEW YORK 1-800-962-7962 TO HAVE PUBLIC UTILITY LOCATIONS PAINTED.

FLOOD ZONE NOTE:

PARCEL SHOWN TO LIE WITHIN "OTHER AREAS, ZONE X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2 PERCENT ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM) FOR THE CITY OF NEWBURGH, IDENTIFIED AS MAP NUMBER 36071C0144E BEARING AN EFFECTIVE DATE OF AUGUST 3, 2009.

TAX PARCEL DESIGNATION:

CITY OF NEWBURGH, ORANGE COUNTY, STATE OF NEW YORK
7-1-55

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THAT THIS SURVEY MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED ON APRIL 18, 2024 AND THAT THIS SURVEY MAP WAS MADE BY ME OR UNDER MY DIRECTION, AND CONFORMS WITH THE MINIMUM STANDARD OF PRACTICE ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025
David H. Dippel, L.S. NYS #050577 EXP: 01/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

CLIENT:

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

PROJECT/SITE:

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: VM

REVIEWED BY: DD

ISSUED FOR: BID

DATE: 11/12/2024

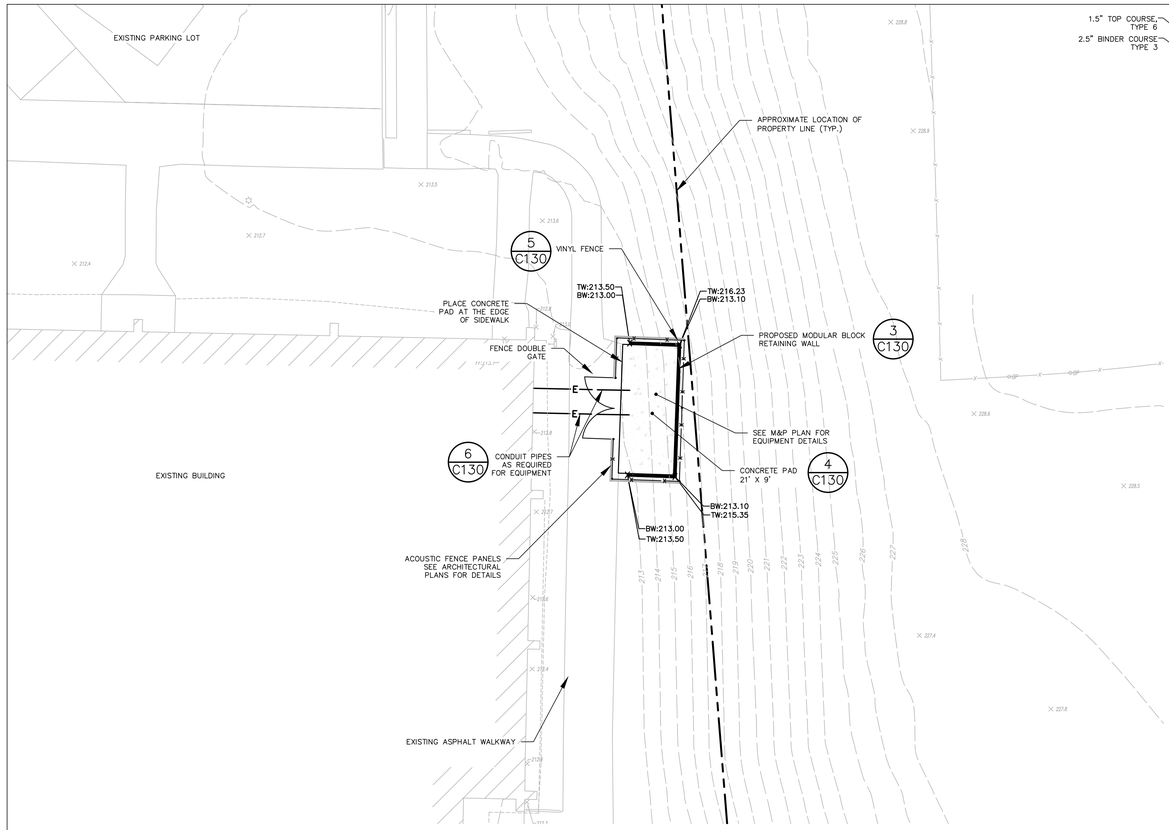
DRAWING NAME:

MAP OF TOPOGRAPHIC SURVEY PREPARED FOR NEWBURGH ENLARGED CITY SCHOOL DISTRICT

DRAWING NUMBER:

C101

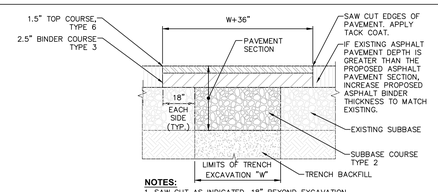
Drawing Name: \\cata\labella\Projects\Newburgh Enlarged CSD\2233600 - Districtwide ADA Elec Upgrade\06_Drawings\Survey\DWG\05_SVY_2233600_EXIST.dwg
Xrefs Attached: 2233600 XREF GMAS 20x42 TB_X-BASEMAP-SVY_2233600
Date Printed: Nov 08, 2024, 10:47am



1 C130 **SITE PLAN EQUIPMENT PAD NORTH**
SCALE: 1" = 10'

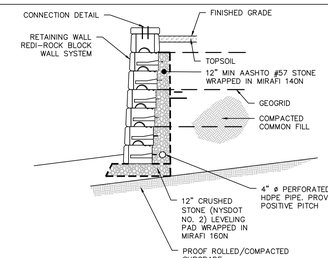
0 10 20 30
ORIGINAL SCALE 1"=10'

N

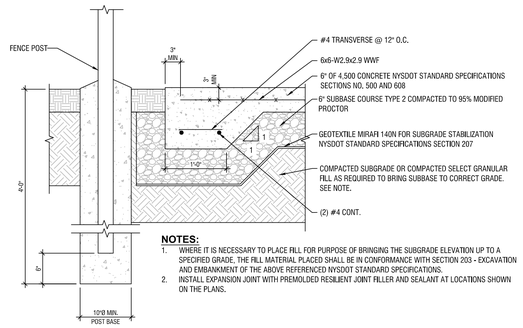


NOTES:
1. SAW CUT AS INDICATED, 18" BEYOND EXCAVATION.
2. FURNISH, PLACE, AND COMPACT SUBBASE.
3. TACK COAT IN ACCORDANCE WITH NYSDOT STANDARD SPEC.
4. FURNISH AND PLACE ASPHALT CONCRETE PAVEMENT AS SPECIFIED.

2 **TRENCH SURFACE RESTORATION IN ASPHALT PAVEMENT**
SCALE: NOT TO SCALE

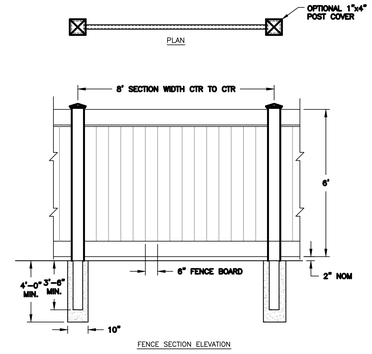


3 **TYPICAL READY ROCK WALL SECTION**
SCALE: NOT TO SCALE

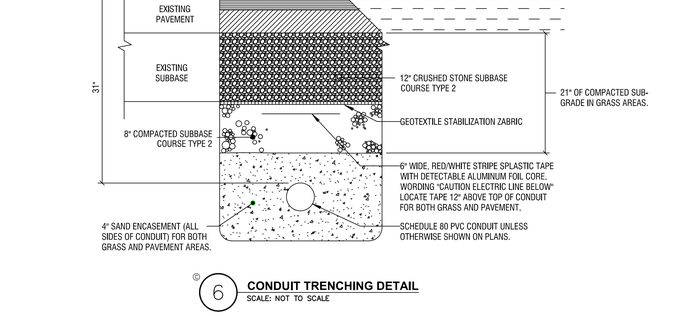


NOTES:
1. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203 - EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
2. INSTALL EXPANSION JOINT WITH PREMOLDED RESILIENT JOINT FILLER AND SEALANT AT LOCATIONS SHOWN ON THE PLANS.

4 **CONCRETE PAD DETAIL**
SCALE: NOT TO SCALE



5 **VINYL FENCE DETAIL**
SCALE: NOT TO SCALE



6 **CONDUIT TRENCHING DETAIL**
SCALE: NOT TO SCALE

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

STATE OF NEW YORK · ROGER E. KEATING · 083455 · LICENSED PROFESSIONAL ENGINEER

EXP: 08/31/2026 EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE,
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
1	7/24/2024	PAD RELOCATION
Revisions		

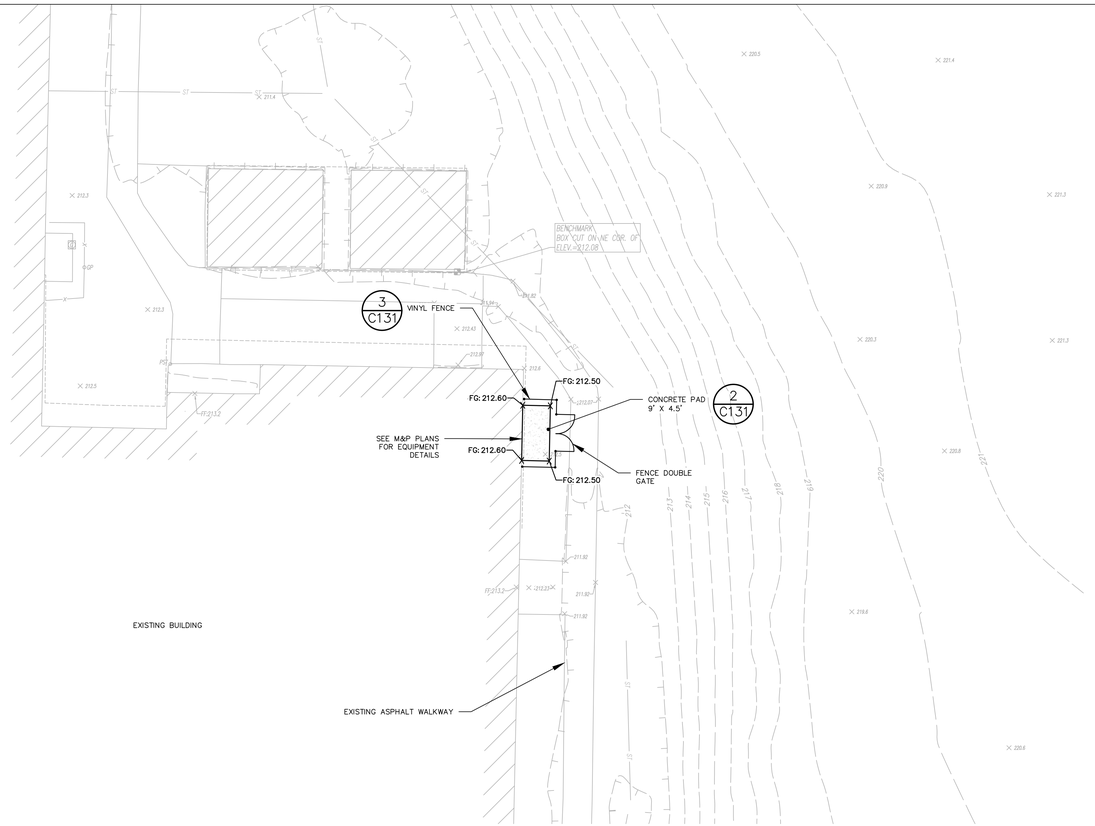
S.E.D NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY:
REVIEWED BY:
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SITE PLAN EQUIPMENT PAD NORTH

DRAWING NUMBER:

C130

11/7/2024 1:27:04 PM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Civil\GIDNEY AVE MEMORIAL SCHOOL\01_C130_SITE PLAN.dwg



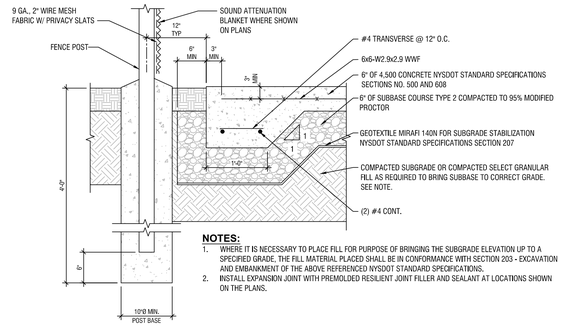
1 C131 SITE PLAN SKETCH EQUIPMENT PAD SOUTH

SCALE: 1" = 10'

0 10 20 30

ORIGINAL SCALE 1"=10'

N



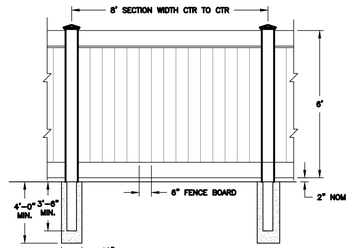
NOTES:

1. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203 - EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
2. INSTALL EXPANSION JOINT WITH PREMOLDED RESILIENT JOINT FILLER AND SEALANT AT LOCATIONS SHOWN ON THE PLANS.

2 **CONCRETE PAD DETAIL**

SCALE: NOT TO SCALE

PLAN



FENCE SECTION ELEVATION

3 **VINYL FENCE DETAIL**

SCALE: NOT TO SCALE

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

STATE OF NEW YORK
ROGER E. KEATING
083455
LICENSED PROFESSIONAL ENGINEER

EXP: 08/31/2026 EXP:

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 016281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE,
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
1	7/24/2024	PAD RELOCATION
Revisions		

S.E.D NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY:

REVIEWED BY:

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

SITE PLAN EQUIPMENT PAD SOUTH

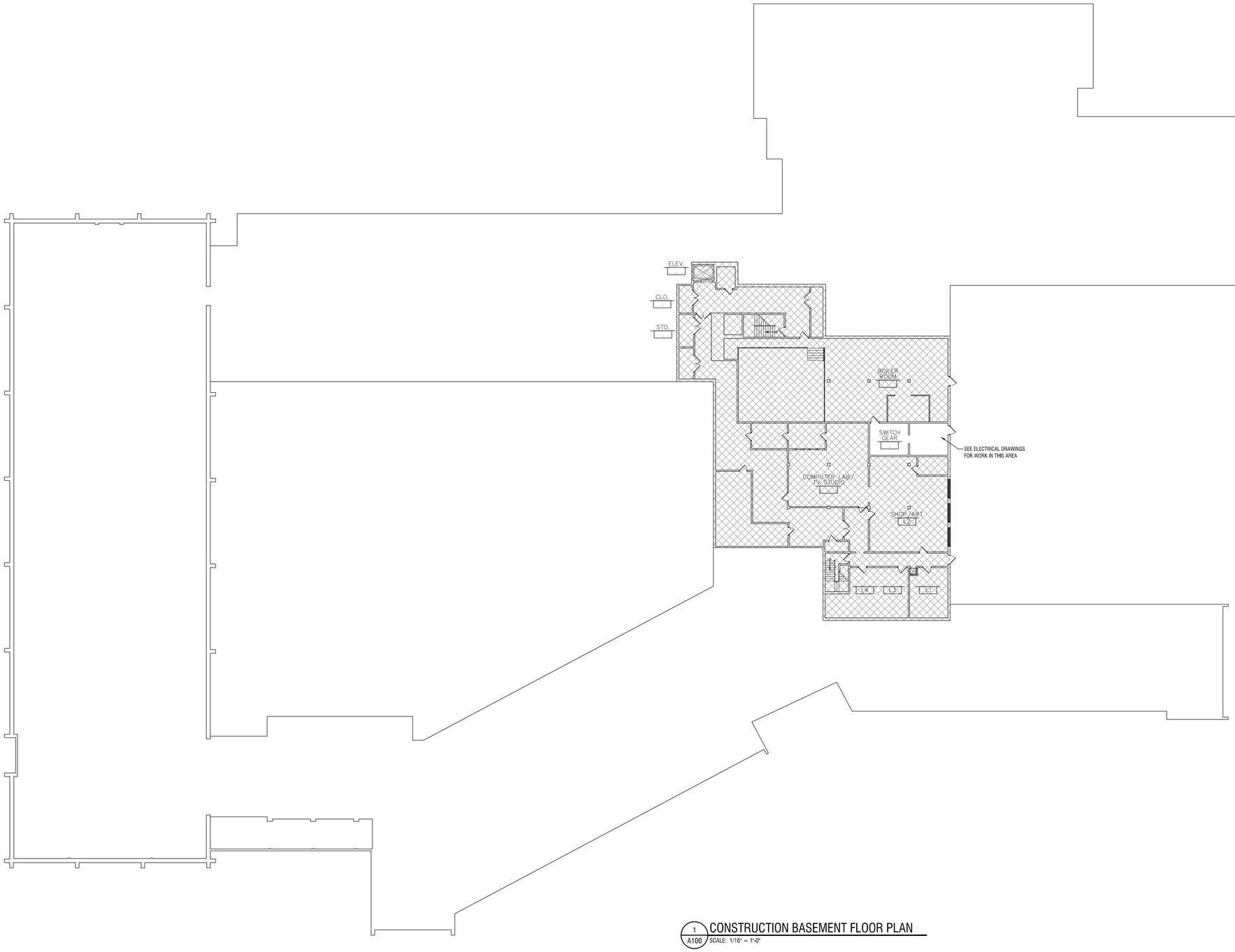
DRAWING NUMBER:

C131

11/7/2024 1:27:06 PM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Civil\GIDNEY AVE MEMORIAL SCHOOL\01_C130_SITE PLAN.dwg

LEGEND

NO WORK IN THIS AREA



1 A100 CONSTRUCTION BASEMENT FLOOR PLAN
SCALE: 1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

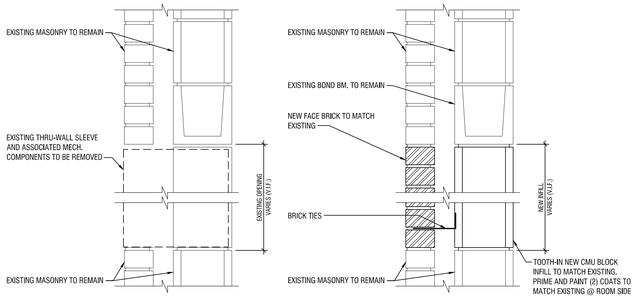
DRAWING NAME:

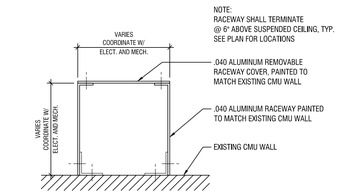
CONSTRUCTION BASEMENT FLOOR PLAN

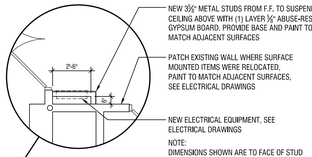
DRAWING NUMBER:

A100

Drawing Name: B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\VR_Drawings\Arch\AUTOCAD\Gidney Avenue Memorial School\2233600 GAMS A100 BASEMENT FLOOR PLAN.dwg
Xref's Attached: 2233600 XREF GAMS BASEMENT; 2233600 XREF GAMS Title42 TB
Date Printed: Nov 05, 2024, 10:08am







2 A101 SECTION @ MASONRY INFILL FOR THRU-WALL A/C UNIT

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

CONSTRUCTION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. DIMENSIONS ARE TO FACE OF STUD, U.N.O. NOTED CLEAR DIMENSIONS ARE TO FINISHED FACE OF WALLS.
2. VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCING WORK. IF CONDITIONS ARE ENCOUNTERED WHICH VARY FROM THOSE SHOWN, CONTACT THE ARCHITECT IMMEDIATELY.
3. DO NOT SCALE DRAWINGS, NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES IN DIMENSIONS.
4. PATCH EXISTING WALLS WHERE TRIM, HARDWARE, ACCESSORIES, SIGNAGE AND WALLS WERE REMOVED TO MATCH ADJACENT WALL. USE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. INCLUDES THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS IN ACCORDANCE WITH THE UL DESIGN HANDBOOK. ALIGN NEW FINISH SURFACE WITH EXISTING REMAINING WALL FINISH.
5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL ITEMS INDICATED ARE NEW UNLESS INDICATED OTHERWISE.
7. ALL WALLS OUTSIDE OF THE CONTRACT THAT ARE PATCHED AS A RESULT OF WORK THAT IS PART OF THIS SCOPE OF WORK SHALL BE PREPPED, PRIMED, AND PAINTED TO MATCH EXISTING COLOR.
8. EACH TRADE SHALL DO ALL CLEANING OF ITS OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO ITS OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUB-CONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
9. DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISCELLANEOUS ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. MECHANICAL, ELECTRICAL, AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MECHANICAL AND ELECTRICAL DRAWINGS FOR OVERALL SCOPE OF WORK.
10. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING ETC.
11. APPLY AND/OR INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO SPECIFICATIONS, MANUFACTURER'S PUBLISHED INSTRUCTIONS OR, IF NO INSTRUCTIONS EXIST, INSTALL PER STANDARD INDUSTRY PRACTICE.
12. INSTALL ELECTRIC SWITCHES, OUTLETS, THERMOSTATS, CONTROLS, AND OTHER WALL-MOUNTED ACCESSORIES IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, DISPLAY BOARDS, FIXTURES, SHELVING OR OTHER FURNISHINGS OR EQUIPMENT DESIGNATED FOR SPACES SHOWN ON DRAWINGS. COORDINATE INSTALLATION WITH THE ELECTRICAL DRAWINGS. ADVISE THE ARCHITECT OF CONFLICTS IN LOCATION OR TYPES OF DEVICES SHOWN PRIOR TO INSTALLATION. DO NOT INSTALL WALL MOUNTED ITEMS ON, THROUGH OR INTO ANY EQUIPMENT UNLESS INDICATED.
13. MOUNT ELECTRIC SWITCHES, THERMOSTATS AND OTHER ELECTRONIC CONTROLS LOCATED IN THE SAME VICINITY AT THE SAME HEIGHT ABOVE FINISHED FLOOR IN A UNIFORM, ORDERLY FASHION UNLESS NOTED OTHERWISE.
14. FLASH PATCH AND PREPARE CONCRETE SLAB TO RECEIVE NEW FLOOR FINISH.
15. PROVIDE NEW CEILING GRID AND ACOUSTICAL TILES TO MATCH EXISTING, INSTALLED AT EXISTING CEILING HEIGHT. BASIS OF DESIGN: ARMSTRONG FISSURED ITEM #756, SQUARE LAY-IN $^{15}/_{16}$, 24"x24"x$^{5}/_{8}$". ALL EXISTING ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, ETC.) SHALL BE REINSTALLED IN THEIR ORIGINAL LOCATIONS.
16. REINSTALL EXISTING ACOUSTICAL CEILING TILES TO THEIR ORIGINAL LOCATIONS IN EXISTING CEILING GRID. ALL EXISTING ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, ETC) SHALL BE REINSTALLED IN THEIR ORIGINAL LOCATIONS.

NOTE:
RACEWAY SHALL TERMINATE @ 6" ABOVE SUSPENDED CEILING, TYP.
SEE PLAN FOR LOCATIONS

.040 ALUMINUM REMOVABLE RACEWAY COVER, PAINTED TO MATCH EXISTING CMU WALL

.040 ALUMINUM RACEWAY PAINTED TO MATCH EXISTING CMU WALL

EXISTING CMU WALL

3 A101 PLAN DETAIL: ALUMINUM RACEWAY

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

LEGEND

▨ NO WORK IN THIS AREA

NEW 3⅝" METAL STUDS FROM F.F. TO SUSPENDED CEILING ABOVE WITH (1) LAYER ⅝" ABUSE-RESISTANT GYPSUM BOARD. PROVIDE BASE AND PAINT TO MATCH ADJACENT SURFACES

PATCH EXISTING WALL WHERE SURFACE MOUNTED ITEMS WERE RELOCATED, PAINT TO MATCH ADJACENT SURFACES, SEE ELECTRICAL DRAWINGS

NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS

NOTE:
DIMENSIONS SHOWN ARE TO FACE OF STUD

1A A101 ENLARGED PLAN DETAIL

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

1 A101 CONSTRUCTION FIRST FLOOR PLAN

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

N

Drawing Name: B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Gidney Avenue Memorial School\2233600 GAMS A101 FIRST FLOOR PLAN.dwg
Xref's Attached: 2233600 XREF GAMS 1FP; 2233600 XREF GAMS 30x42 TB
Date Printed: Nov 05, 2024, 10:52am

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP:
EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

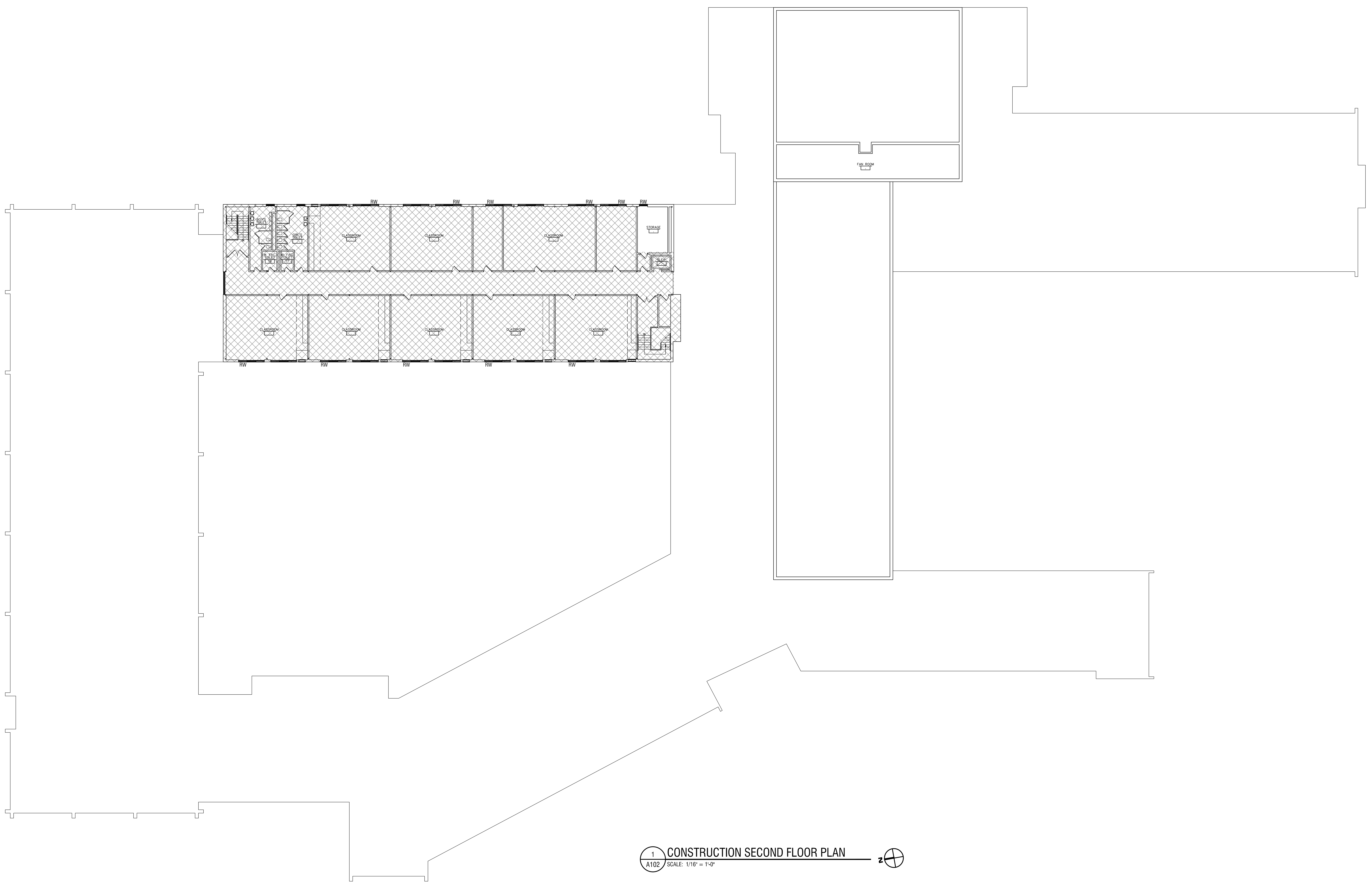
CONSTRUCTION FIRST FLOOR PLAN

DRAWING NUMBER:

A101

LEGEND

NO WORK IN THIS AREA



1 A102 CONSTRUCTION SECOND FLOOR PLAN
SCALE: 1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP:

EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:

Revisions

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

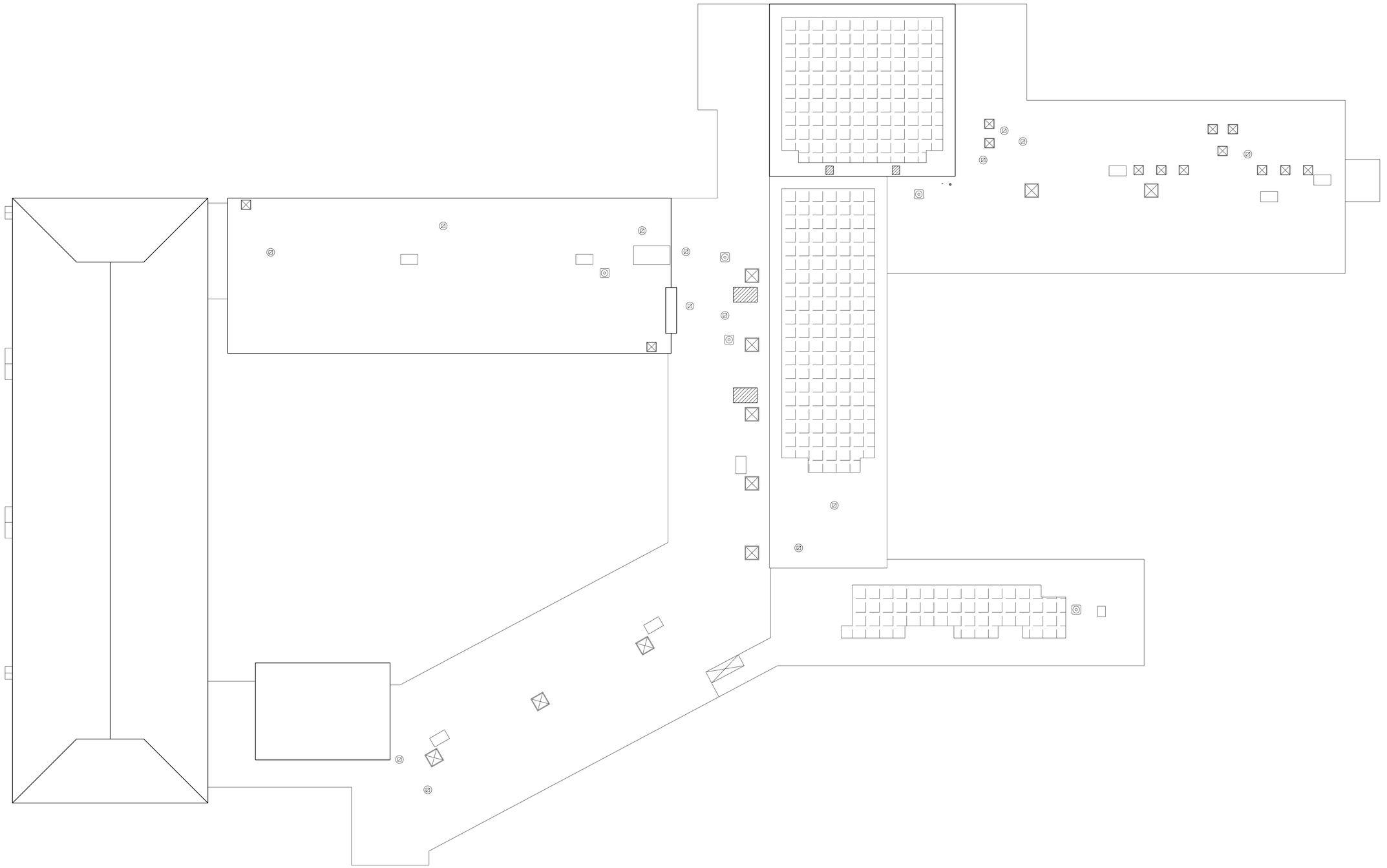
CONSTRUCTION SECOND FLOOR PLAN

DRAWING NUMBER:

A102

LEGEND

- EXISTING MECHANICAL EQUIPMENT
- EXISTING SKYLIGHT
- EXISTING SOLAR PANELS
- NEW MECHANICAL EQUIPMENT SEE MECHANICAL DRAWINGS



1 A103 ROOF PLAN
SCALE: 1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

ROOF PLAN

DRAWING NUMBER:

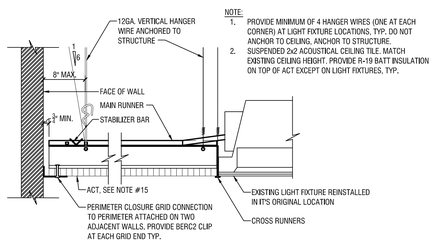
A103

Drawing Name: B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Gidney Avenue Memorial School\2233600 GIANS A103 ROOF PLAN.dwg
Xref's Attached: 2233600 XREF GIANS 36x42 TB: 2233600 XREF GIANS ROOF
Date Printed: Nov 05, 2024, 10:58am

CONSTRUCTION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. DIMENSIONS ARE TO FACE OF STUD, U.N.O. NOTED CLEAR DIMENSIONS ARE TO FINISHED FACE OF WALLS.
2. VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCING WORK. IF CONDITIONS ARE ENCOUNTERED WHICH VARY FROM THOSE SHOWN, CONTACT THE ARCHITECT IMMEDIATELY.
3. DO NOT SCALE DRAWINGS, NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES IN DIMENSIONS.
4. PATCH EXISTING WALLS WHERE TRIM, HARDWARE, ACCESSORIES, SIGNAGE AND WALLS WERE REMOVED TO MATCH ADJACENT WALL. USE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. INCLUDES THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS IN ACCORDANCE WITH THE UL DESIGN HANDBOOK. ALIGN NEW FINISH SURFACE WITH EXISTING REMAINING WALL FINISH.
5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL ITEMS INDICATED ARE NEW UNLESS INDICATED OTHERWISE.
7. ALL WALLS OUTSIDE OF THE CONTRACT THAT ARE PATCHED AS A RESULT OF WORK THAT IS PART OF THIS SCOPE OF WORK SHALL BE PREPPED, PRIMED, AND PAINTED TO MATCH EXISTING COLOR.
8. EACH TRADE SHALL DO ALL CLEANING OF ITS OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO ITS OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUB-CONTRACTORS, THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
9. DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISCELLANEOUS ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. MECHANICAL, ELECTRICAL, AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MECHANICAL AND ELECTRICAL DRAWINGS FOR OVERALL SCOPE OF WORK.
10. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING ETC.
11. APPLY AND/OR INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO SPECIFICATIONS, MANUFACTURER'S PUBLISHED INSTRUCTIONS OR, IF NO INSTRUCTIONS EXIST, INSTALL PER STANDARD INDUSTRY PRACTICE.
12. INSTALL ELECTRIC SWITCHES, OUTLETS, THERMOSTATS, CONTROLS, AND OTHER WALL-MOUNTED ACCESSORIES IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, DISPLAY BOARDS, FIXTURES, SHELVING OR OTHER FURNISHINGS OR EQUIPMENT DESIGNATED FOR SPACES SHOWN ON DRAWINGS. COORDINATE INSTALLATION WITH THE ELECTRICAL DRAWINGS. ADVISE THE ARCHITECT OF CONFLICTS IN LOCATION OR TYPES OF DEVICES SHOWN PRIOR TO INSTALLATION. DO NOT INSTALL WALL MOUNTED ITEMS ON, THROUGH OR INTO ANY EQUIPMENT UNLESS INDICATED.
13. MOUNT ELECTRIC SWITCHES, THERMOSTATS AND OTHER ELECTRONIC CONTROLS LOCATED IN THE SAME VICINITY AT THE SAME HEIGHT ABOVE FINISHED FLOOR IN A UNIFORM, ORDERLY FASHION UNLESS NOTED OTHERWISE.
14. FLASH PATCH AND PREPARE CONCRETE SLAB TO RECEIVE NEW FLOOR FINISH.
15. PROVIDE NEW CEILING GRID AND ACOUSTICAL TILES TO MATCH EXISTING, INSTALLED AT EXISTING CEILING HEIGHT. BASIS OF DESIGN: ARMSTRONG ITEM #935, SQUARE LAY-IN 15/16, 24"x24"x5/8". ALL EXISTING ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, INSULATION, ETC.) SHALL BE REINSTALLED IN THEIR ORIGINAL LOCATIONS. SEE 2/A301
16. NEW ACOUSTICAL CEILING TILES IN EXISTING CEILING GRID, ALL EXISTING ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, INSULATION, ETC) SHALL BE REINSTALLED IN THEIR ORIGINAL LOCATIONS.



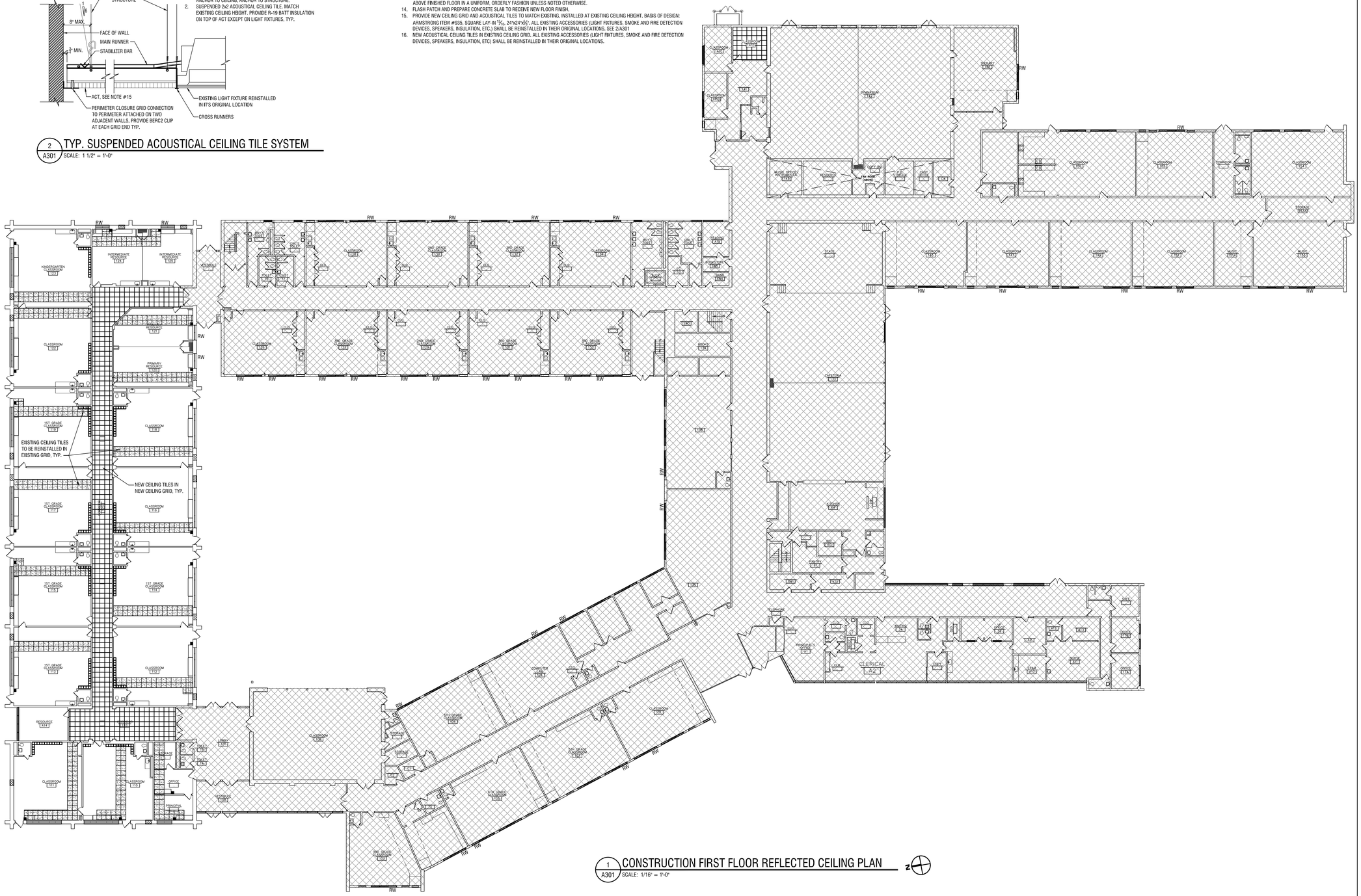
2 / A301 TYP. SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
SCALE: 1 1/2" = 1'-0"

LEGEND

NO WORK IN THIS AREA

NEW CEILING GRID AND ACOUSTICAL TILES. SEE NOTE #15 AND 2/A301

NEW ACOUSTICAL TILES INSTALLED IN EXISTING CEILING GRID. SEE NOTES #15 AND #16



1 / A301 CONSTRUCTION FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION
EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: CONSTRUCTION FIRST FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER: A301

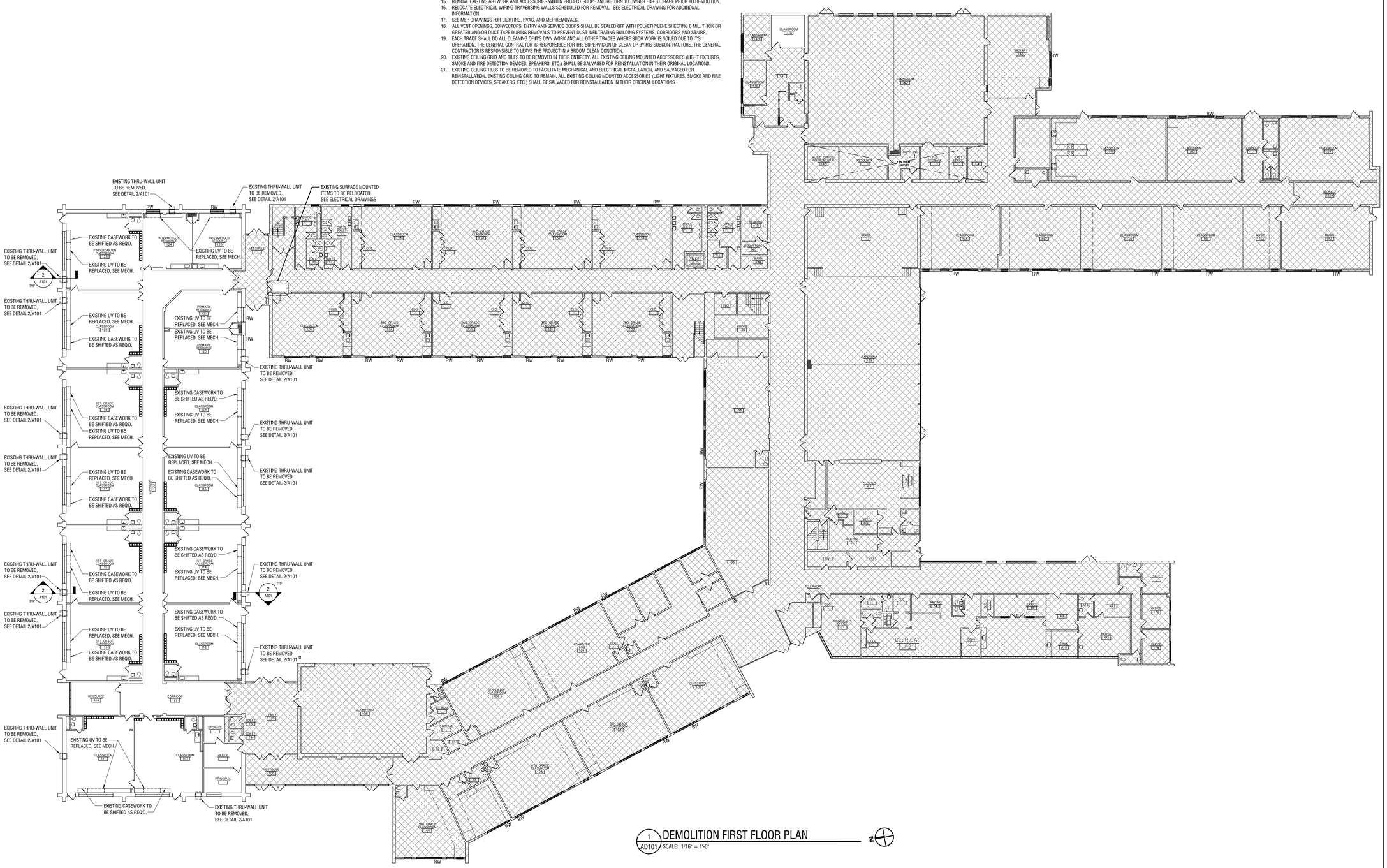
DEMOLITION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. THE CONTRACTOR IS REQUIRED TO PERFORM ALL REMOVAL WORK SHOWN AND/OR REQUIRED TO FACILITATE NEW CONSTRUCTION AS DEPICTED IN DRAWING SET.
2. THE CONTRACTOR SHALL COORDINATE ALL M.E.P. REMOVAL WITH THE APPROPRIATE TRADES. THE CONTRACTOR SHALL ASSURE OPERATION OF EXISTING M.E.P. SERVICE FOR ADJACENT SPACES BEYOND THE SCOPE OF THIS RENOVATION. MAINTAIN EXISTING UTILITIES AND PROTECT AGAINST DAMAGE DURING DEMOLITION. DISCONNECT AND SEAL UTILITIES LOCATED IN CONSTRUCTION TO BE REMOVED.
3. THE CONTRACTOR SHALL PROTECT ALL OTHER WORK WHICH IS TO REMAIN. UNAFFECTED SECTIONS OF THE BUILDING SHALL BE SEALED OFF. TEMPORARY PARTITIONS SHALL BE PROVIDED AND MAINTAINED AS NECESSARY TO CONFINE AND PROTECT WORK.
4. COORDINATE THE STORAGE AND HANDLING OF EXISTING MATERIALS TO BE SALVAGED/REISED WITH OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION INDICATED WITH OWNER'S REPRESENTATIVE.
6. ALL REMOVED MATERIALS, EXCEPT AS NOTED TO BE SALVAGED SHALL BE REMOVED FROM THE PREMISES DAILY. IN NO CASE SHALL DANGEROUS OR EXCESSIVE DEBRIS BE ALLOWED TO ACCUMULATE. THE CONTRACTOR SHALL COORDINATE ALL DEBRIS REMOVAL WITH THE OWNER, INCLUDING BUT NOT LIMITED TO LOCATION OF ANY ON-SITE DUMPSTER.
7. ALL PENETRATIONS IN EXISTING WALL ASSEMBLIES TO REMAIN, OR CREATED AS A RESULT OF REMOVAL WORK, MUST BE PATCHED AND REPAIRED TO BE SMOKE TIGHT. USE THE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. THIS SHALL INCLUDE THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS WHERE REQUIRED IN ACCORDANCE WITH THE UL DESIGN HANDBOOK.
8. CONSULT WITH OWNER OR ARCHITECT IMMEDIATELY IF ANY STRUCTURAL CONCERNS ARISE DURING REMOVAL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING CONDITIONS AFFECTING WORK SHOWN ON THESE DOCUMENTS. ANY ADVERSE EXISTING CONDITIONS AFFECTING WORK SHOWN SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
10. CARE SHALL BE EXERCISED IN THE REMOVAL OF WORK TO PREVENT THE RELEASE OF TOXIC SUBSTANCES. SHOULD TOXIC SUBSTANCES, SUCH AS ASBESTOS BE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED. THE OWNER WILL ABATE TOXIC SUBSTANCES UNDER A SEPARATE CONTRACT WITH A LICENSED ABATEMENT CONTRACTOR.
11. DURING DEMOLITION AND CONSTRUCTION OPERATIONS PROVIDE ALL NECESSARY PROTECTION AND SAFE PASSAGE FOR THE PUBLIC, SUCH AS, BUT NOT LIMITED TO, BARRICADES, TEMPORARY PARTITIONS, DUST BARRIERS, SIGNS, ETC. ERECT AND MAINTAIN THESE BARRIERS TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE RULES AND REGULATIONS.
12. IF ANY EXISTING CONSTRUCTION THAT IS TO BE LEFT IN PLACE OR NOT SPECIFICALLY NOTED FOR REMOVAL IS DAMAGED DURING DEMOLITION OR CONSTRUCTION WORK, IT SHALL BE REPAIRED OR REPLACED TO MATCH CONDITION AT NO ADDITIONAL COST TO THE OWNER.
13. COORDINATE CONSTRUCTION TIMING, MOVEMENT OF CONSTRUCTION MATERIALS AND STORAGE OF REFUSE CONTAINERS (AND PROTECTION OF EXISTING CONSTRUCTION) WITH THE OWNER.
14. COORDINATE ARCHITECTURAL DEMOLITION WORK WITH THAT OF THE MEP TRADES AND DRAWINGS, VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO COMMENCING WORK.
15. REMOVE EXISTING ARTWORK AND ACCESSORIES WITHIN PROJECT SCOPE AND RETURN TO OWNER FOR STORAGE PRIOR TO DEMOLITION.
16. RELOCATE ELECTRICAL WIRING TRAVERSING WALLS SCHEDULED FOR REMOVAL. SEE ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
17. SEE MEP DRAWINGS FOR LIGHTING, HVAC, AND MEP REMOVALS.
18. ALL VENT OPENINGS, CONVECTORS, ENTRY AND SERVICE DOORS SHALL BE SEALED OFF WITH POLYETHYLENE SHEETING 6 MIL. THICK OR GREATER AND/OR DUCT TAPE DURING REMOVALS TO PREVENT DUST INFILTRATING BUILDING SYSTEMS, CORRIDORS AND STAIRS.
19. EACH TRADE SHALL DO ALL CLEANING OF IT'S OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO IT'S OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUBCONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
20. EXISTING CEILING GRID AND TILES TO BE REMOVED IN THEIR ENTIRETY. ALL EXISTING CEILING MOUNTED ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, ETC.) SHALL BE SALVAGED FOR REINSTALLATION IN THEIR ORIGINAL LOCATIONS.
21. EXISTING CEILING TILES TO BE REMOVED TO FACILITATE MECHANICAL AND ELECTRICAL INSTALLATION, AND SALVAGED FOR REINSTALLATION. EXISTING CEILING GRID TO REMAIN. ALL EXISTING CEILING MOUNTED ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, ETC.) SHALL BE SALVAGED FOR REINSTALLATION IN THEIR ORIGINAL LOCATIONS.

LEGEND

NO WORK IN THIS AREA



1 AD101 DEMOLITION FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 016281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600
DRAWN BY: JR
REVIEWED BY: PM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

DEMOLITION FIRST FLOOR PLAN

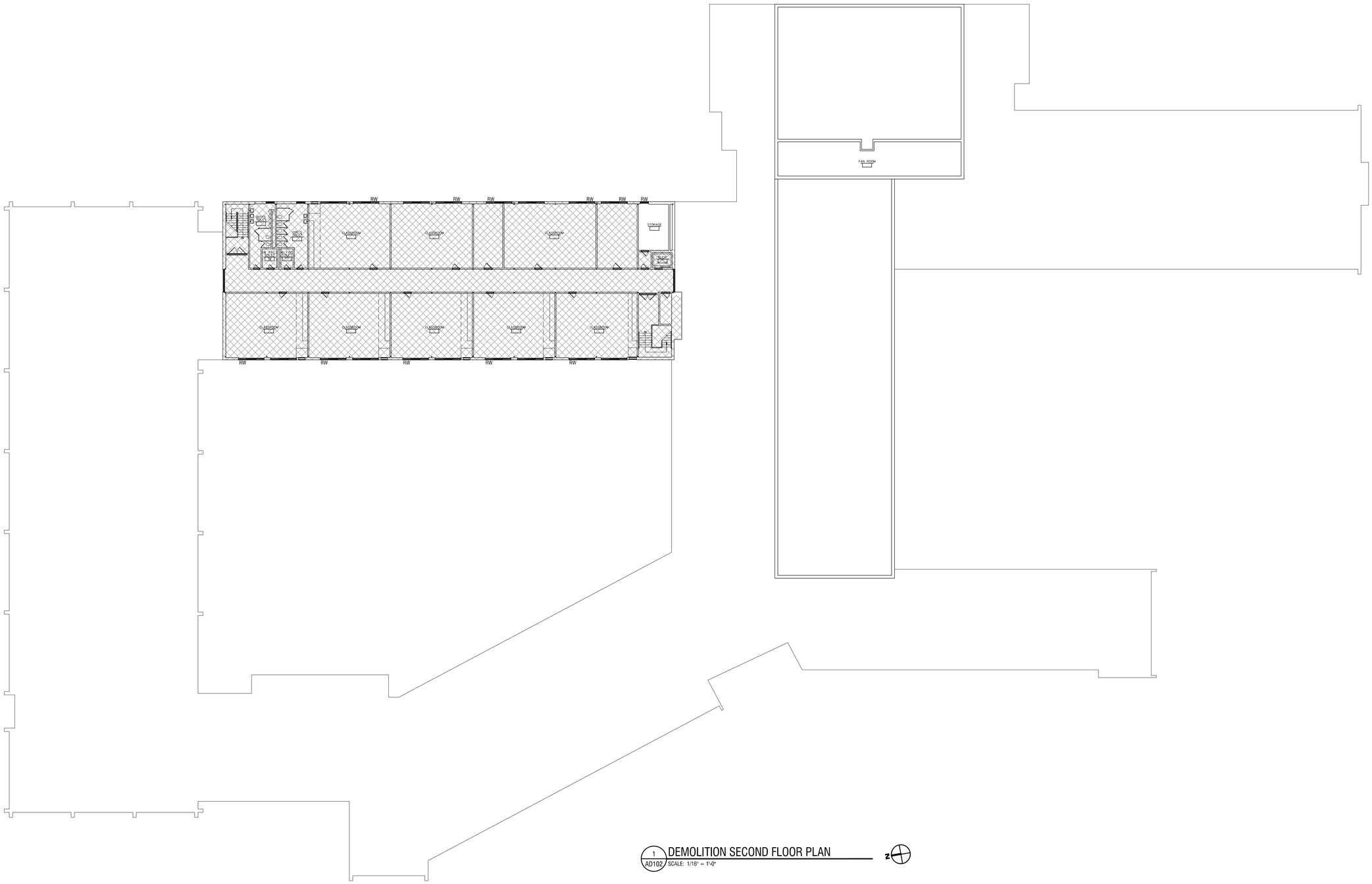
DRAWING NUMBER:

AD101

Drawing Name: 8 GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Gidney Avenue Memorial School\2233600 GAMS A101 FIRST FLOOR PLAN.dwg
Xrefs Attached: 2233600 XREF GAMS 1FP; 2233600 XREF GAMS 3Dx2 TB
Date Printed: Nov 05, 2024, 10:54am

LEGEND

NO WORK IN THIS AREA



1 AD102 DEMOLITION SECOND FLOOR PLAN

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

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

DEMOLITION SECOND FLOOR PLAN

DRAWING NUMBER:

AD102

Drawing Name: B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Gidney Avenue Memorial School\2233600 GAMS A102 SECOND FLOOR PLAN.dwg
Xrefs Attached: 2233600 XREF GAMS ZPP; 2233600 XREF GAMS 36x42 TB
Date Printed: Nov 05, 2024, 10:53am

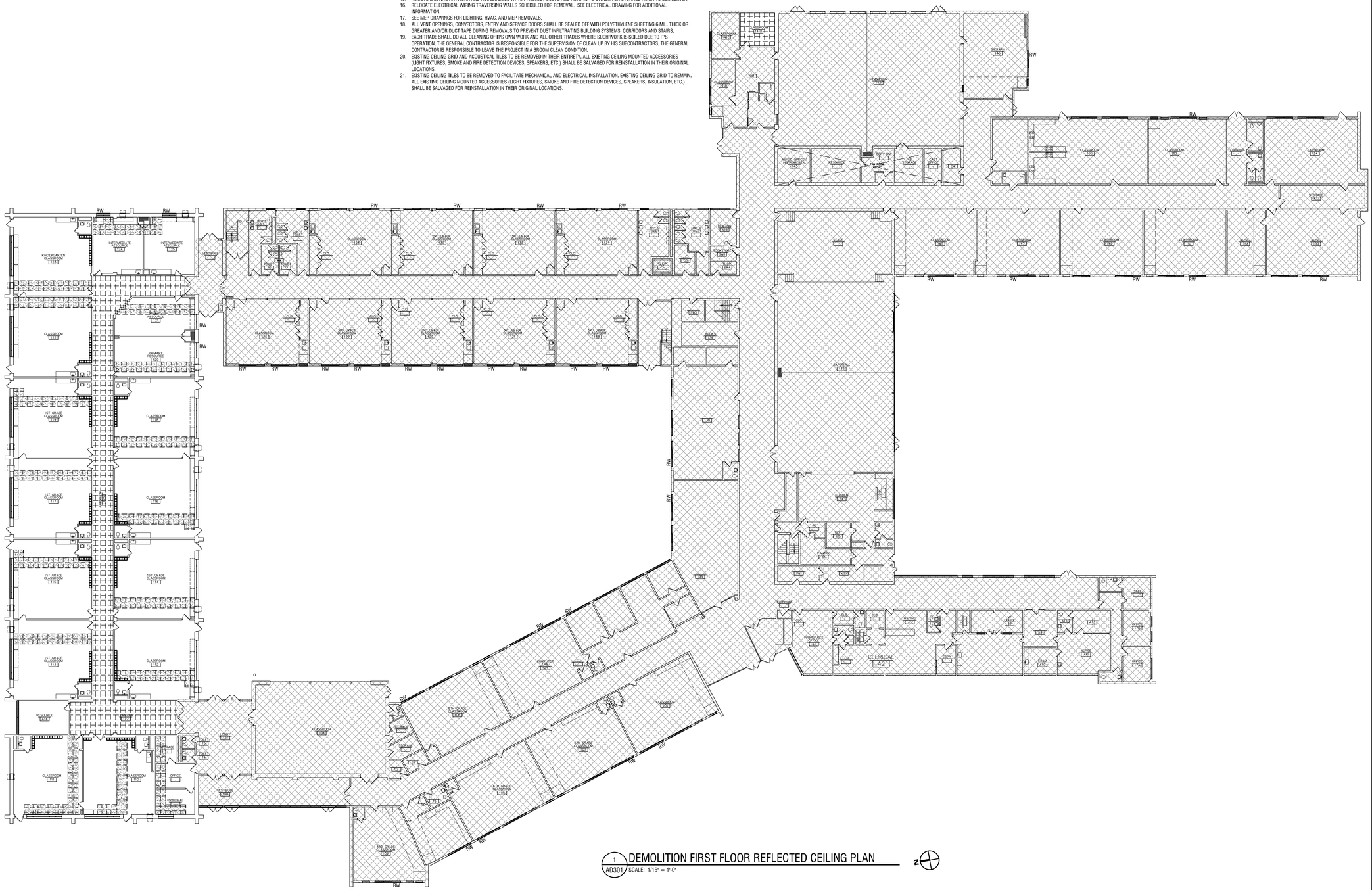
DEMOLITION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. THE CONTRACTOR IS REQUIRED TO PERFORM ALL REMOVAL WORK SHOWN AND/OR REQUIRED TO FACILITATE NEW CONSTRUCTION AS DEPICTED IN DRAWING SET.
2. THE CONTRACTOR SHALL COORDINATE ALL M.E.P. REMOVAL WITH THE APPROPRIATE TRADES. THE CONTRACTOR SHALL ASSURE OPERATION OF EXISTING M.E.P. SERVICE FOR ADJACENT SPACES BEYOND THE SCOPE OF THIS RENOVATION. MAINTAIN EXISTING UTILITIES AND PROTECT AGAINST DAMAGE DURING DEMOLITION. DISCONNECT AND SEAL UTILITIES LOCATED IN CONSTRUCTION TO BE REMOVED.
3. THE CONTRACTOR SHALL PROTECT ALL OTHER WORK WHICH IS TO REMAIN. UNAFFECTED SECTIONS OF THE BUILDING SHALL BE SEALED OFF. TEMPORARY PARTITIONS SHALL BE PROVIDED AND MAINTAINED AS NECESSARY TO CONFINE AND PROTECT WORK.
4. COORDINATE THE STORAGE AND HANDLING OF EXISTING MATERIALS TO BE SALVAGED/REUSED WITH OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION INDICATED WITH OWNER'S REPRESENTATIVE.
6. ALL REMOVED MATERIALS, EXCEPT AS NOTED TO BE SALVAGED SHALL BE REMOVED FROM THE PREMISES DAILY. IN NO CASE SHALL DANGEROUS OR EXCESSIVE DEBRIS BE ALLOWED TO ACCUMULATE. THE CONTRACTOR SHALL COORDINATE ALL DEBRIS REMOVAL WITH THE OWNER, INCLUDING BUT NOT LIMITED TO LOCATION OF ANY ON-SITE DUMPSTER.
7. ALL PENETRATIONS IN EXISTING WALL ASSEMBLIES TO REMAIN, OR CREATED AS A RESULT OF REMOVAL WORK, MUST BE PATCHED AND REPAIRED TO BE SMOKE TIGHT. USE THE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. THIS SHALL INCLUDE THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS WHERE REQUIRED IN ACCORDANCE WITH THE UL DESIGN HANDBOOK.
8. CONSULT WITH OWNER OR ARCHITECT IMMEDIATELY IF ANY STRUCTURAL CONCERNS ARISE DURING REMOVAL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING CONDITIONS AFFECTING WORK SHOWN ON THESE DOCUMENTS. ANY ADVERSE EXISTING CONDITIONS AFFECTING WORK SHOWN SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
10. CARE SHALL BE EXERCISED IN THE REMOVAL OF WORK TO PREVENT THE RELEASE OF TOXIC SUBSTANCES. SHOULD TOXIC SUBSTANCES, SUCH AS ASBESTOS BE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED. THE OWNER WILL ABATE TOXIC SUBSTANCES UNDER A SEPARATE CONTRACT WITH A LICENSED ABATEMENT CONTRACTOR.
11. DURING DEMOLITION AND CONSTRUCTION OPERATIONS PROVIDE ALL NECESSARY PROTECTION AND SAFE PASSAGE FOR THE PUBLIC, SUCH AS, BUT NOT LIMITED TO, BARRICADES, TEMPORARY PARTITIONS, DUST BARRIERS, SIGNS, ETC. ERECT AND MAINTAIN THESE BARRIERS TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE RULES AND REGULATIONS.
12. IF ANY EXISTING CONSTRUCTION THAT IS TO BE LEFT IN PLACE OR NOT SPECIFICALLY NOTED FOR REMOVAL IS DAMAGED DURING DEMOLITION OR CONSTRUCTION WORK, IT SHALL BE REPAIRED OR REPLACED TO MATCH CONDITION AT NO ADDITIONAL COST TO THE OWNER.
13. COORDINATE CONSTRUCTION TIMING, MOVEMENT OF CONSTRUCTION MATERIALS AND STORAGE OF REFUSE CONTAINERS (AND PROTECTION OF EXISTING CONSTRUCTION) WITH THE OWNER.
14. COORDINATE ARCHITECTURAL DEMOLITION WORK WITH THAT OF THE MEP TRADES AND DRAWINGS, VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO COMMENCING WORK.
15. REMOVE EXISTING ARTWORK AND ACCESSORIES WITHIN PROJECT SCOPE AND RETURN TO OWNER FOR STORAGE PRIOR TO DEMOLITION.
16. RELOCATE ELECTRICAL WIRING TRAVERSING WALLS SCHEDULED FOR REMOVAL. SEE ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
17. SEE MEP DRAWINGS FOR LIGHTING, HVAC, AND MEP REMOVALS.
18. ALL VENT OPENINGS, CONVECTORS, ENTRY AND SERVICE DOORS SHALL BE SEALED OFF WITH POLYETHYLENE SHEETING 6 MIL. THICK OR GREATER AND/OR DUCT TAPE DURING REMOVALS TO PREVENT DUST INFILTRATING BUILDING SYSTEMS, CORRIDORS AND STAIRS.
19. EACH TRADE SHALL DO ALL CLEANING OF IT'S OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO IT'S OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUBCONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
20. EXISTING CEILING GRID AND ACOUSTICAL TILES TO BE REMOVED IN THEIR ENTIRETY. ALL EXISTING CEILING MOUNTED ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, ETC.) SHALL BE SALVAGED FOR REINSTALLATION IN THEIR ORIGINAL LOCATIONS.
21. EXISTING CEILING TILES TO BE REMOVED TO FACILITATE MECHANICAL AND ELECTRICAL INSTALLATION. EXISTING CEILING GRID TO REMAIN. ALL EXISTING CEILING MOUNTED ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, INSULATION, ETC.) SHALL BE SALVAGED FOR REINSTALLATION IN THEIR ORIGINAL LOCATIONS.

LEGEND

▨	NO WORK IN THIS AREA
▦	EXISTING CEILING GRID AND ACOUSTICAL TILES TO BE REMOVED. SEE NOTE #20
▦	EXISTING CEILING TILES TO BE REMOVED. EXISTING CEILING GRID TO REMAIN. SEE NOTE #21



1 AD301 DEMOLITION FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"

Drawing Name: B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Gidney Avenue Memorial School\2233600 GAMS A301 FIRST FLOOR REF CLG PLAN.dwg
Xref's Attached: 2233600 XREF GAMS 1FP; 2233600 XREF GAMS 30x42 TB
Date Printed: Nov 05, 2024, 11:05am

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION
EXP:
EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

NEWBURGH ENLARGED
CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE
ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:

Revisions

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: JR
REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

DEMOLITION
FIRST FLOOR
REFLECTED CEILING PLAN

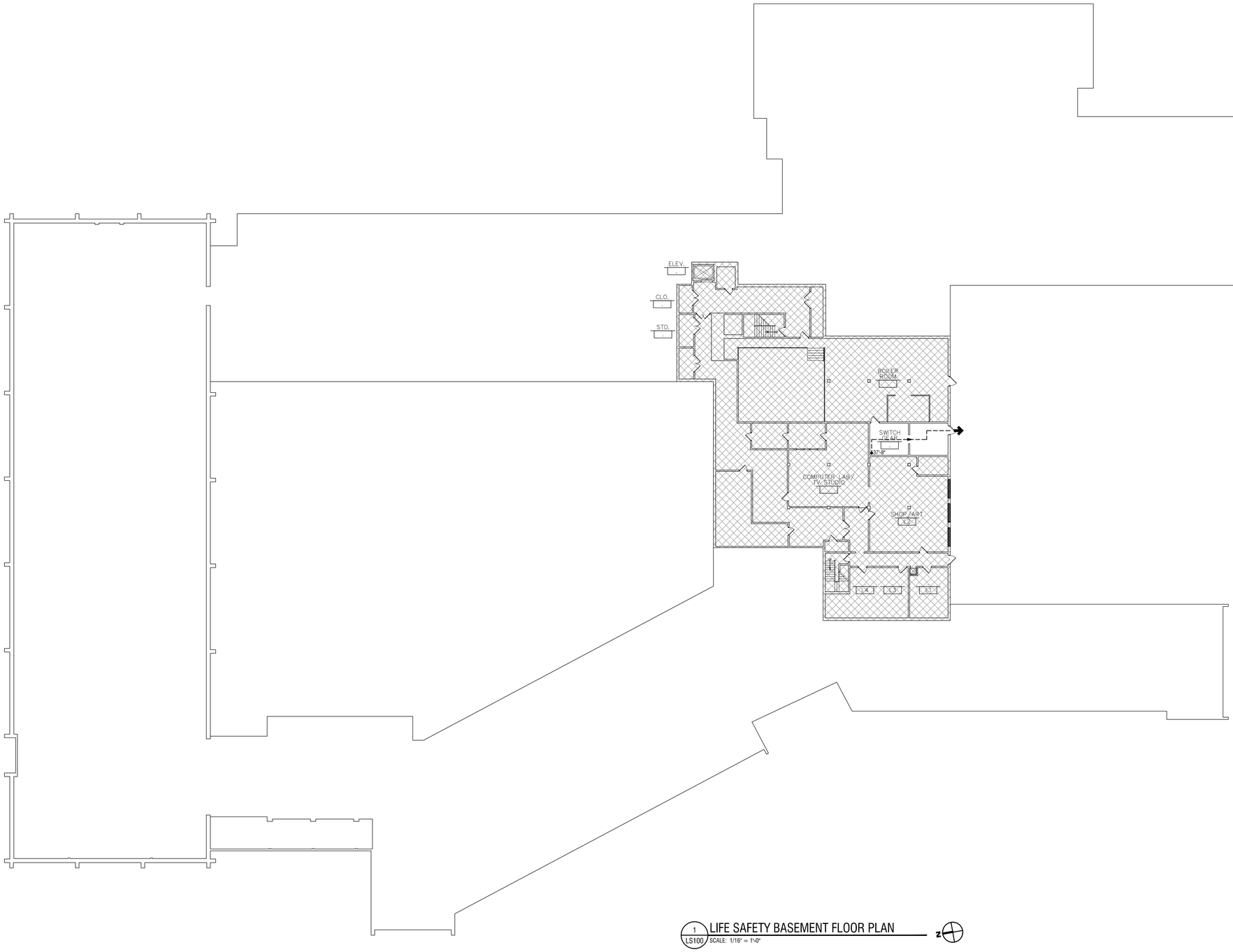
DRAWING NUMBER:

AD301

LEGEND

NO WORK IN THIS AREA

EXISTING POINT OF EGRESS



1 LS100 LIFE SAFETY BASEMENT FLOOR PLAN

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

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

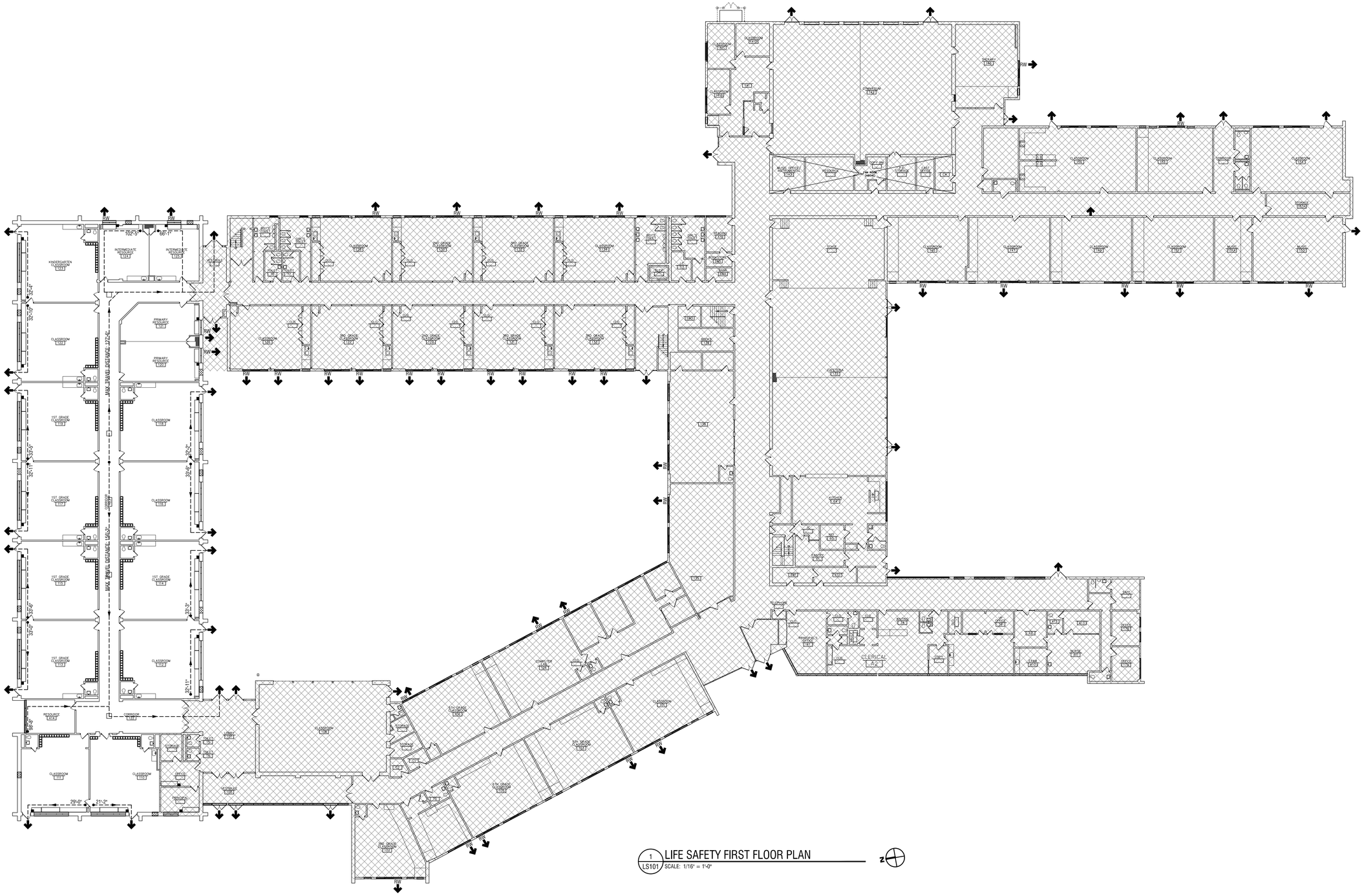
DRAWING NAME:

LIFE SAFETY BASEMENT FLOOR PLAN

DRAWING NUMBER:

LS100

Drawing Name: B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\VR_Drawings\Arch\AUTOCAD\Gidney Avenue Memorial School\Life Safety\2233600 GAMS LS100 BASEMENT FLOOR PLAN.dwg
Xref's Attached: 2233600 XREF GAMS BASEMENT; 2233600 XREF GAMS 36x42 TB
Date Printed: Nov 05, 2024, 1:10:10 pm



1 LS101 LIFE SAFETY FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION
EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

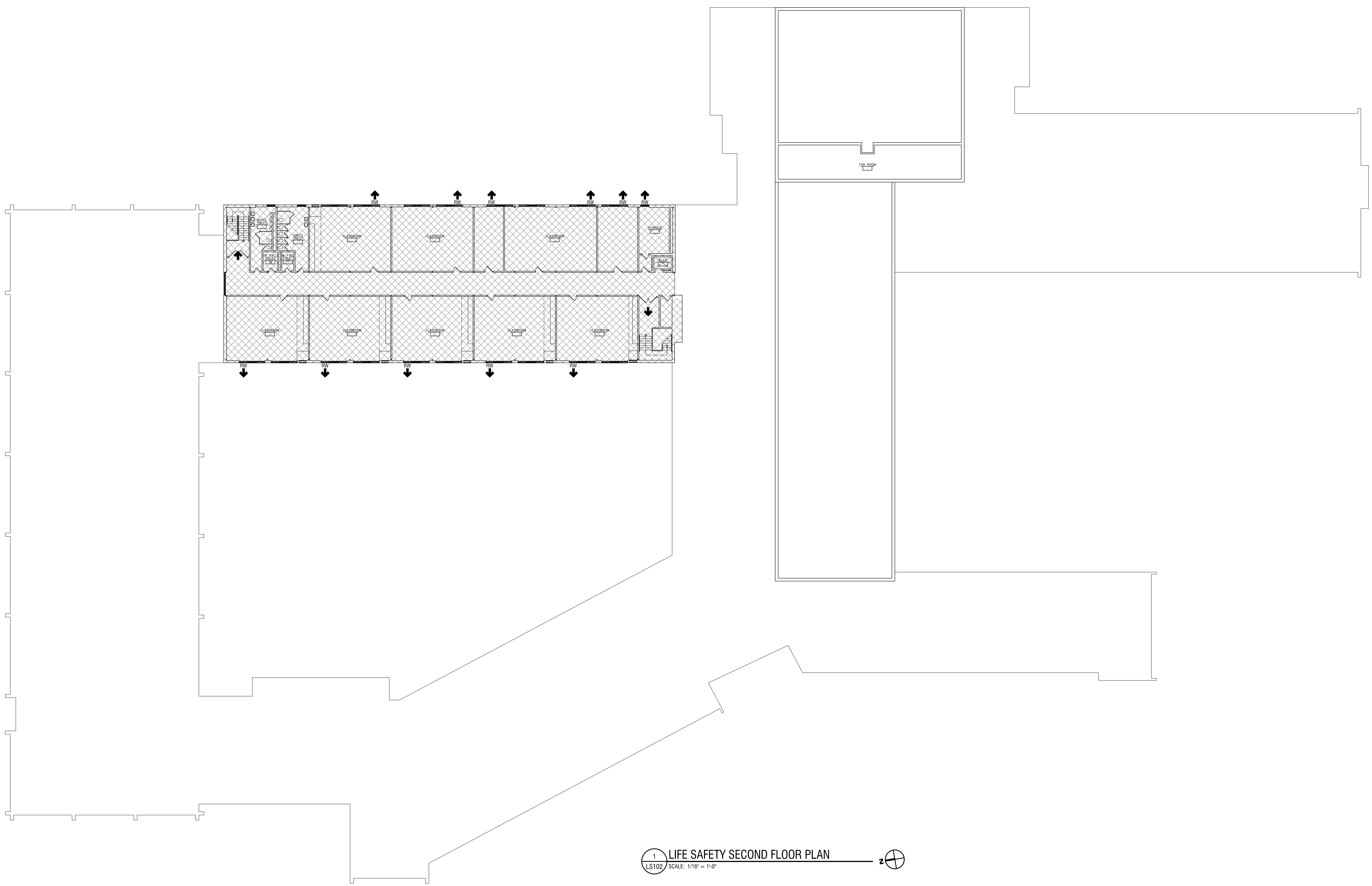
DRAWING NAME:

LIFE SAFETY FIRST FLOOR PLAN

DRAWING NUMBER:

LS101

Drawing Name: B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AE Elec Upgrade\06_Drawings\Arch\AUTOCAD\Gidney Avenue Memorial School\Life Safety\2233600 GAMS LS101 FIRST FLOOR PLAN.dwg
Xref's Attached: 2233600 XREF GAMS - HPI - 2233600 XREF GAMS 30x42 TB
Date Plotted: Nov 05, 2024 - 10:48am



LEGEND

NO WORK IN THIS AREA

RW — EXISTING RESCUE WINDOW

EXISTING POINT OF EGRESS

1 / LS102 — LIFE SAFETY SECOND FLOOR PLAN

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

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP:

EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:

Revisions

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

LIFE SAFETY SECOND FLOOR PLAN

DRAWING NUMBER:

LS102

Drawing Name: B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Gidney Avenue Memorial School\Life Safety\2233600 GAMS LS102 SECOND FLOOR PLAN.dwg
Xref's Attached: 2233600 XREF GAMS 2FP; 2233600 XREF GAMS 30x42 TB
Date Printed: Nov 05, 2024, 10:47am

GENERAL NOTES:

1. THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE RELATED PROVISIONS OF THE 2020 NEW YORK STATE UNIFORM FIRE PREVENTION AND EXISTING BUILDING CODE (NYSEBC) AND STATE ENERGY CONSERVATION CONSTRUCTION CODE (ENERGY CODE) AND STANDARDS INCLUDING ASCE STANDARD (ASCE/SEI 7–16) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

2. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO: DIMENSIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON–BEARING WALLS, STAIRS, FINISHES, DRAINS, WATERPROOFING, RAILINGS, MECHANICAL UNIT LOCATIONS, AND OTHER NON–STRUCTURAL ITEMS.

3. THIS WORK IS BEING PERFORMED WITHIN AN ACTIVE FACILITY. COORDINATE ALL WORK WITH FACILITY PERSONNEL AND ENSURE THAT THE OPERATION OF THE FACILITY IS NOT NEGATIVELY AFFECTED BY THE WORK.

4. CONTRACTOR SHALL PROCURE ALL REQUIRED PERMITS IN ACCORDANCE WITH THE AUTHORITY HAVE JURISDICTION (AHJ) PRIOR TO CONSTRUCTION.

5. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF WORK WITH OTHER TRADES; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES, MEANS AND METHODS OF ASSEMBLY; AND FOR PERFORMING WORK IN A SAFE AND SECURE MANNER. IN GENERAL, ALL STABILIZATION ITEMS INCLUDED IN CONSTRUCTION DOCUMENTS OR UNSTABLE ITEMS KNOWN TO THE CONTRACTOR, SHALL BE REMEDIATED AND STABILIZED PRIOR TO ANY OTHER DEMOLITION OR CONSTRUCTION.

6. CONTRACTOR TO BE RESPONSIBLE FOR STRENGTH AND STABILITY OF STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN CONSTRUCTION DOCUMENTS AND REQUIREMENTS FOR EXECUTING IT PROPERLY. CONTRACTOR SHALL EMPLOY A REGISTERED ENGINEER FOR THE DESIGN OF TEMPORARY SHORING WHERE REQUIRED. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL THE FLOOR DIAPHRAGM HAS BEEN INSTALLED.

7. LOADS ON STRUCTURES DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN "DESIGN CRITERIA" OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY CONTRACTOR'S SPECIALTY STRUCTURAL ENGINEER (SSE) FOR BRACING/SHORING. CONTRACTOR SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF THE SSE TO SUPPORT CONSTRUCTION EFFORTS INCLUDING BUT NOT LIMITED TO TEMPORARY SHORING, RIGGING SUPPORT OR MEANS AND METHODS OF CONSTRUCTION.

8. MEANS AND METHODS OF CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR INCLUDING BUT NOT LIMITED TO TEMPORARY BRACING/ SHORING, RIGGING, TEMPORARY WORK PLATFORMS, DE–WATERING, CREATING AND MAINTAINING STAGING AND TEMPORARY WORK AREAS ETC. CONTRACTOR SHALL SUBMIT PLANS FOR ALL TEMPORARY EARTH WORK STABILITY INCLUDING BUT NOT LIMITED TO DE–WATERING AND SLOPE/ VERTICAL CUT STABILITY.

9. CONTRACTOR TO HAVE SOLE RESPONSIBILITY TO NOTIFY ENGINEER OF ANY BUILDING SYSTEM, MECHANICAL, ELECTRICAL OR PLUMBING SYSTEM LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (BUILDING SYSTEM, STRUCTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING DRAWINGS).

10. IN THE CASE OF DISCREPANCIES BETWEEN GENERAL NOTES, SPECIFICATIONS, PLAN/DETAILS, REFERENCE STANDARDS, OR BETWEEN DISCIPLINES THE ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

11. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH WORK.

12. CONTRACTOR SHALL DETERMINE THE LOCATION OF ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTHWORK, FOUNDATIONS, SHORING, AND EXCAVATION. UTILITY INFORMATION SHOWN ON DRAWINGS AND DETAILS IS APPROXIMATE AND NOT NECESSARILY COMPLETE.

13. DETAILS ENTITLED OR NOTED AS "TYPICAL" APPLY NOT ONLY WHERE SPECIFICALLY INDICATED OR REFERENCED, BUT ALSO IN ALL OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. DETERMINE APPLICABILITY OF TYPICAL DETAILS FROM DESCRIPTIVE TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION TO ANOTHER CONDITION WHERE THE DETAIL IS SPECIFICALLY INDICATED OR REFERENCED.

14. USE WATER MIST, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION; DO NOT CAUSE ICING, FLOODING, OR TRANSPORTATION OF POLLUTANTS.

15. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES. APPLICABLE SAFETY CODES MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS, AND ADDITIONS THERE TO, TO THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA), AND APPLICABLE LOCAL SAFETY AND HEALTH REGULATIONS AND BUILDING CODES FOR CONSTRUCTION IN THE STATE OF NEW YORK IN ADDITION TO ANY AND ALL "HOUSE RULES" AS REQUIRED BY OWNER.

16. TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL SUBMIT A PROPOSED CONSTRUCTION SEQUENCE TO THE ENGINEER OR AS OTHERWISE DIRECTED IN THE PROJECT SPECIFICATIONS FOR APPROVAL.

17. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS NEEDED BY THE CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO WORK IN CONGESTED UTILITY AREAS. ALL TEST PIT LOGS SHALL BE SUBMITTED TO THE ENGINEER WITHIN FOURTEEN (14) DAYS FOLLOWING NOTICE TO PROCEED UNLESS OTHERWISE DIRECTED BY THE SPECIFICATIONS OR ENGINEER.

18. THE GENERAL CHARACTER AND EXTENT OF THE WORK IS SHOWN ON THE CONTRACT DRAWINGS; HOWEVER, THE CONTRACTOR SHALL PROVIDE ALL WORK REQUIRED BY THE CONSTRUCTION DOCUMENTS REGARDLESS OF WHETHER OR NOT IT IS SHOW ON THE DRAWINGS.

SUBMITTAL NOTES:

1. SUBMITTALS OF SHOP DRAWINGS AND PRODUCT DATA ARE REQUIRED FOR ALL MATERIALS, SYSTEMS AND COMPONENTS AND FOR DELEGATED DESIGN ELEMENTS.

2. SUBMITTALS SHALL BE MADE AND SUBMITTED IN TIME TO PROVIDE A MINIMUM OF TWO WEEKS FOR REVIEW BY THE ENGINEER PRIOR TO ONSET OF FABRICATION.

3. PRIOR TO SUBMISSION TO ENGINEER, CONTRACTOR SHALL REVIEW SUBMITTAL FOR COMPLETENESS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY ENGINEER AND THEREFORE MUST BE VERIFIED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ANY NECESSARY DIMENSIONAL DETAILS REQUESTED BY DETAILER AND PROVIDE CONTRACTOR'S REVIEW STAMP AND SIGNATURE BEFORE FORWARDING TO ENGINEER.

4. ONCE CONTRACTOR HAS COMPLETED CONTRACTOR'S REVIEW, ENGINEER WILL REVIEW SUBMITTAL FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND CONTRACT DOCUMENTS OF BUILDING AND WILL STAMP SUBMITTAL ACCORDINGLY. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THERE FROM. NO FABRICATION SHALL COMMENCE UNTIL ALL RELEVANT SUBMITTALS HAVE BEEN REVIEWED BY ENGINEER AND STAMPED WITH NO EXCEPTIONS TAKEN.

5. WHEN SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) DIFFER FROM OR ADD TO THE REQUIREMENTS OF STRUCTURAL DRAWINGS THEY SHALL BE DESIGNED AND CERTIFIED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER.

6. REQUIRED SUBMITTALS ARE OUTLINED IN EACH RESPECTIVE SPECIFICATION SECTION. IN GENERAL, ALL ELEMENTS, PIECES, PROCESSES AND SYSTEMS SHALL BE SUBMITTED FOR REVIEW IN THE FORM OF SHOP DRAWINGS, CUT SHEETS AND/ OR MANUFACTURER PRODUCT LITERATURE AS APPROPRIATE.

7. REPRODUCTION OF CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS UNDER ANY CIRCUMSTANCE.

DESIGN CRITERIA (NEW CONSTRUCTION ONLY):

ALL WORK SHALL COMPLY WITH THE RELATED PROVISIONS OF THE UNIFORM CODE OF NEW YORK STATE AND ITS REFERENCE STANDARDS.

DESIGN BASIS
GOVERNING CODE.....2020 EXISTING BUILDING CODE

DESIGN CRITERIA
(ALL LOADS PROVIDED BELOW ARE UNFACTORED)

DEAD LOADS:
(ALL LOADS PROVIDED BELOW ARE SERVICE–LEVEL LOADS)

DEAD LOADS:
PRIMARY STRUCTURE.....SELF–WEIGHT
SECONDARY ROOF STRUCTURE (I.E. DECKING, PURLINS, ETC.).....SELF–WEIGHT
SECONDARY WALL STRUCTURES (I.E. PANELING, GIRTS, ETC.).....SELF–WEIGHT
SUSPENDED ROOF LOADING (I.E. M/E/P, COINCIDENTAL LOADS, ETC.).....7 PSF
ROOF INSULATION AND VAPOR BARRIERS.....SELF–WEIGHT

LIVE LOADS:
ROOF.....20 PSF
FLOOR LIVE LOADS.....100 PSF
RTUS.....SEE PLAN

SNOW LOADS:
GROUND SNOW LOAD (Pg).....30 PSF
BUILDING EXPOSURE..... PART. EXPOSED
EXPOSURE FACTOR (Ce).....1.0
IMPORTANCE FACTOR (Is).....1.2
THERMAL FACTOR (Ct).....1.2
FLAT ROOF SNOW LOAD (Pf).....30.3 PSF
ROOF SYSTEM AND SLOPE.....FLAT ROOF
ROOF SLOPE FACTOR (Cs).....1.0
SLOPED ROOF SNOW LOAD (Ps).....N/A

WIND LOADS:
RISK CATEGORY.....III
BASIC WIND SPEED (3–SECOND GUST,V).....113 MPH
ALLOWABLE WIND SPEED (V_{ASD}).....$(0.6)^2V_2$
EXPOSURE CATEGORY.....B
INTERNAL PRESSURE COEFFICIENT (Cpi).....±0.18 (ENCLOSED)
COMPONENTS AND CLADDING DESIGN WIND PRESSURES.....SEE DIAGRAM

EARTHQUAKE DESIGN DATA
RISK CATEGORY.....II
IMPORTANCE FACTOR (Ie).....1.0
MAPPED SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (Ss).....0.224g
MAPPED SPECTRAL RESPONSE ACCELERATION FOR 1–SECOND PERIODS (S1).....0.056g
SITE CLASS.....D
SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (Sds).....0.239g
SPECTRAL RESPONSE ACCELERATION FOR 1–SECOND PERIODS (Sd1).....0.09g
SEISMIC DESIGN CATEGORY.....B
BASIC SEISMIC FORCE RESISTING SYSTEM.....N/A
RESPONSE MODIFICATION FACTOR (R).....N/A
DESIGN BASE SHEAR.....N/A
ANALYSIS PROCEDURE.....N/A

ROOF RAIN LOADS:
15–MINUTE PRECIPITATION INTENSITY.....5.89 IN./H
60–MINUTE PRECIPITATION INTENSITY.....2.53 IN./H

SCOPE OF WORK NOTES:

1. OUR SCOPE OF WORK IS LIMITED TO THE STRUCTURAL SYSTEMS SPECIFICALLY DETAILED HEREIN TO SUPPORT NEW ROOF TOP UNITS AND WALL MOUNTED UNITS. ANCILLARY SYSTEMS NOT SPECIFICALLY DETAILED HEREIN ARE EXPECTED TO BE THE RESPONSIBILITY OF OTHERS OR THE MANUFACTURER FOR ITEMS SUCH AS BUT NOT LIMITED TO: STAIRS AND RAILINGS, NON–STRUCTURAL PARTITION WALLS, AWNINGS / CANOPIES, CURBS, FACADE ASSEMBLIES, INTERIOR FURNISHINGS, EXTERIOR ATTACHMENTS / LIGHTING, AND DELEGATED DESIGN ITEMS.

2. INFORMATION GRAPHICALLY DEPICTED ON BACKGROUNDS / REFERENCE FILES AND NOT SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS ARE NOT INCLUDED IN OUR SCOPE OF WORK OR WITHIN OUR DESIGN RESPONSIBILITY.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL FOR THIS PROJECT IS DESIGNED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATIONS PER AISC – "MANUAL OF STEEL CONSTRUCTION" FIFTEENTH EDITION (2017).

2. CONFORM TO THE FOLLOWING REFERENCE STANDARDS:
   2.1. NEW YORK BUILDING CODE, CHAPTER 22 – STEEL
   2.2. ANSI/AISC 303–10 – CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS BRIDGES, HEREAFTER REFERENCED AS AISC 303.
   2.3. ANSI/AISC 360–16 – SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, HEREAFTER REFERRED TO AS AISC 360.
   2.4. AISC 348– 04RCSC – SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, PREPARED BY "RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS" (RCSC), HEREAFTER REFERENCED AS RCSC.
   2.5. AWS D1.1–15 – STRUCTURAL WELDING CODE – STEEL, HEREAFTER REFERENCED AS AWS D1.1.

3. SUBMITTALS:
   3.1. SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH AISC 360 SECTION 1 AND AISC 303 SECTION 4.
   3.2. SUBMIT WELDER'S CERTIFICATES VERIFYING QUALIFICATION WITHIN PAST 12 MONTHS.
   3.3. AFFIDAVIT STATING THE STEEL PROVIDED MEETS THE REQUIREMENTS OF THE GRADES SPECIFIED.
   3.4. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK TO PREPARE AND CERTIFY THE STEEL CONNECTION DESIGN SUBMITTAL WHICH SHALL INCLUDE THE ASSUMPTIONS, DESIGN CALCULATIONS AND SHOP DRAWINGS AS REQUIRED TO FABRICATE AND ERECT THE FINISHED STRUCTURE AS SHOWN ON STRUCTURAL DRAWINGS.

4. MATERIALS:
   WIDE FLANGE (W), TEE (WT) SHAPES.....ASTM A 992 Fy = 50 KSI
   CHANNEL (C) ANGLE (L) SHAPES.....ASTM A 36, Fy = 36 KSI
   STRUCTURAL BARS AND PLATES (PL).....ASTM A 36, Fy =36 KSI
   HOLLOW STRUC. SECTION–SQUARE/RECT (HSS).....ASTM A 500, GRADE B Fy = 46 KSI
   STRUCTURAL PIPE, (PIPE) 12" DIA. AND LESS.....ASTM A 53, GRADE B Fy = 35 KSI
   HIGH–STRENGTH BOLTS.....ASTM A 325–TC
   PLAIN NUTS.....ASTM A 563
   WASHERS (FLAT OR BEVELED).....ASTM F 436–REQUIRED SLOTS & OVERSIZE HOLES
   ANCHOR RODS (ANCHOR BOLTS).....ASTM F 1554, Gr. 36
   MILD THREADED RODS.....ASTM A 36, Fy = 36 KSI
   WELDING ELECTRODES.....E70XX, E71TXX UNLESS OTHERWISE NOTED WITH A MINIMUM TOUGHNESS OF 20 FT–LBS AT 40°F

5. WELDING:
   5.1. CONFORM TO AWS D1.1 AND VISUALLY CONFORM TO AWS SECTION 6 AND TABLE 6.1.
   5.2. WELDERS SHALL BE QUALIFIED FOR THE SPECIFIC PREQUALIFIED JOINTS REQUIRED BY DESIGN AND CERTIFIED IN ACCORDANCE WITH LOCAL REQUIREMENTS.
   5.3. WELDING SHALL BE DONE IN ACCORDANCE WITH APPROPRIATE WELD PROCEDURE SPECIFICATIONS (WPS'S). WELDERS SHALL BE FAMILIAR WITH APPLICABLE WPS'S.
   5.4. WELDING SHALL BE PERFORMED WITH AWS PREQUALIFIED WELDING PROCESS UNLESS OTHERWISE APPROVED.
   5.5. WELDER QUALIFICATIONS AND WPS'S SHALL BE MAINTAINED AT SITE OF WORK AND SHALL BE READILY AVAILABLE FOR INSPECTION UPON REQUEST BOTH IN SHOP AND FIELD.
   5.6. USE E70 OR E71 T, 70 KSI STRENGTH ELECTRODES APPROPRIATE FOR PROCESS SELECTED.

6. ALL COLUMNS (VERTICAL MEMBER ASSEMBLIES WEIGHING OVER 300 POUNDS) SHALL BE PROVIDED WITH A MINIMUM OF FOUR ¾" DIAMETER ANCHOR RODS. COLUMN BASE PLATES SHALL BE AT LEAST ¾" THICK UNLESS NOTED OTHERWISE. CAST–IN–PLACE HEADED ANCHOR RODS SHALL BE PROVIDED UNLESS OTHERWISE APPROVED BY ENGINEER. UNLESS NOTED OTHERWISE, EMBEDMENT OF CAST–IN–PLACE HEADED ANCHOR RODS SHALL BE 12 TIMES THE ANCHOR DIAMETER (12D).

7. FABRICATION:
   7.1. CONFORM TO AISC 303, SECTION 8 AND AISC 360 SECTIONS M2 AND M5.
   7.2. STRUCTURAL WELDING AND QUALIFICATIONS SHALL CONFORM TO AWS D1.1. FABRICATOR SHALL MAINTAIN DETAILED FABRICATION AND ERECTION QUALITY CONTROL PROCEDURES PER BCNYS SECTION 1704.2.1.

8. ERECTION:
   8.1. CONFORM TO AISC 303, SECTION 7 "ERECTION", SECTION 8 "QUALITY ASSURANCE" AND AISC 380 SECTION 4.
   8.2. ERECTOR SHALL MAINTAIN DETAILED FABRICATION AND ERECTION QUALITY CONTROL PROCEDURES THAT ENSURE WORK IS PERFORMED IN ACCORDANCE WITH AISC 360 SECTION M, AISC 303, AND CONTRACT DOCUMENTS.
   8.3. STEEL WORK SHALL BE CARRIED UP TRUE AND PLUMB WITHIN LIMITS DEFINED IN AISC 303 SECTION 7.11.
   8.4. STRUCTURAL WELDING TO CONFORM TO AWS D1.1 AND APPLICABLE WELDING NOTES ABOVE.

9. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SAFETY PROTECTIONS REQUIRED BY AISC 360 SECTION M4.2 AND AISC 303 SECTION 7.10 AND 7.11.

Design Component & Cladding Loads							
	Area (sf)	Zone 1'	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Wind Pressure (+) (psf)	10	16.0	16.0	16.0	16.0	21.6	21.6
	20	16.0	16.0	16.0	16.0	20.7	20.7
	50	16.0	16.0	16.0	16.0	19.8	19.8
	100	16.0	16.0	16.0	16.0	18.0	18.0
	200	16.0	16.0	16.0	16.0	17.6	17.6

Design Component & Cladding Loads								Overhang	
	Area (sf)	Zone 1'	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 2	Zone 3
Wind Pressure (-) (psf)	10	-19.8	-34.5	-45.5	-62.0	-23.5	-29.0	-45.5	-62.0
	20	-19.8	-32.6	-42.2	-56.5	-22.6	-27.1	-41.4	-55.0
	50	-19.8	-29.0	-38.5	-47.9	-21.3	-24.4	-36.3	-45.8
	100	-19.8	-27.1	-35.9	-42.4	-20.2	-22.6	-32.6	-39.6
	200	-17.1	-24.4	-32.6	-36.3	-19.3	-20.7	-29.0	-32.6

W1 / S001 **COMPONENT AND CLADDING WIND DESIGN PRESSURE FOR FLAT ROOF**
SCALE: N.T.S

CONCRETE MASONRY UNIT - MASONRY:

1. COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION (CMU) WALL SYSTEM SHALL BE AS FOLLOWS: MASONRY STRENGTH NOT SPECIFICALLY NOTED IN PLAN SHALL BE f'm = 2000 PSI MINIMUM. STRENGTH OF BLOCK ITSELF SHALL BE f'm = 2000 PSI MIN.

2. CONCRETE MASONRY SHALL BE HOLLOW LOAD–BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. ALL UNITS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION WITH ALL VERTICAL CELLS IN ALIGNMENT EXCEPT AT DRY STACKED INFILL LOCATIONS.

3. MORTAR SHALL CONFORM TO REQUIREMENTS OF TYPE M OR S.

4. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615. REINFORCING SHALL BE GRADE 60 (Fy = 60 KSI) DEFORMED BARS FOR ALL BARS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. ALL REINFORCING TO BE WELDED SHALL BE ASTM A706, GRADE 60 LOW ALLOY WELDABLE STEEL.

5. HORIZONTAL MASONRY JOINT REINFORCEMENT SHALL COMPLY WITH ASTM A951. HORIZONTAL REINFORCEMENT TO BE HOT–DIPPED GALVANIZED STEEL LADDER TYPE WITH 9 GAUGE MINIMUM SIDE AND CROSS RODS.

6. WELDING OF REINFORING BARS, METAL INSERTS, AND CONNECTIONS SHALL CONFORM TO AMERICAN WELDING SOCIETY AWS D1.4 – STRUCTURAL WELDING CODE, AND SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS AND DETAILS.

7. ALL REINFORCING SHALL BE BENT COLD, BARS SHALL NOT BE STRAIGHTENED AND REBENT. FIELD BENDING OF REBAR SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED OTHERWISE.

8. REINFORCING BAR SPACING SHOWN ON PLANS ARE AT MAXIMUM ON CENTERS. ALL BARS SHALL BE DETAILED AND PLACED WITHIN ½" TOLERANCE PERPENDICULAR TO THE WALL AND WITHIN 2" TOLERANCE PARALLEL TO THE WALL SUPPORT ALL REINFORCEMENT TO PREVENT DISPLACEMENT CAUSED BY CONSTRUCTION LOADS OR BY PLACEMENT OF GROUT AND MORTAR BEYOND ALLOWABLE TOLERANCES.

9. MASONRY GROUT SHALL BE IN ACCORDANCE WITH ASTM C476. GROUT EXCEPT FOR SELF CONSOLIDATING GROUT SHALL HAVE A SLUMP BETWEEN 8 AND 11" WHEN MEASURED IN ACCORDANCE WITH ASTM C143.

10. BAR LAP LENGTHS:
    10.1. #4 BAR – 20 INCHES
    10.2. #5 BAR – 25 INCHES

11. MINIMUM VERTICAL WALL REINFORCING SHALL BE AS INDICATED IN THE PLANS AND SHALL BE FULL HEIGHT IN CENTER OF GROUTED CELL AT WALL INTERSECTIONS, CORNERS, AND DOOR JAMBS.

12. MINIMUM HORIZONTAL WALL REINFORCING SHALL INCLUDE A BOND BEAM AT THE TOP OF THE WALL WITH A MINIMUM OF 1 NO. 4 BAR CONTINUOUS AROUND PERIMETER FOR 6" MASONRY WALLS AND 1 NO. 5 CONTINUOUS AROUND THE PERIMETER FOR 8" MASONRY WALLS. PROVIDE BENT BARS PER TYPICAL DETAILS TO MATCH AND LAP WITH HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND WALL INTERSECTIONS TO MAINTAIN CONTINUITY OF BOND BEAM REINFORCEMENT.

13. MINIMUM MASONRY LINTEL SHALL BE AS INDICATED IN THE PLANS, ALL LINTEL REINFORCING SHALL EXTEND 2 FEET PAST JAMBS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

14. MASONRY VENEER SHALL BE ATTACHED TO SUPPORTING WALL FRAMING WITH A ¼" DIA. WALL TIES OR DOVETAIL–TYPE METAL TIES OF EQUIVALENT STIFFNESS EMBEDDED INTO HORIZONTAL MORTAR JOINTS. MAXIMUM VERTICAL SPACING OR TIES SHALL BE 16". MAX HORIZONTAL SPACING SHALL BE 24". TIES IN ALTERNATE COURSES SHALL BE STAGGERED. PROVIDE 9 GA. WIRE REINFORCING IN HORIZONTAL MORTAR JOINTS AT 16" O.C. ENGAGE 9 GA. WIRE WITH WALL ANCHOR TIES.

15. LOOSE ANGLE BRICK LINTELS SHALL BE SPECIFIED BY OTHERS.

16. RETAINING WALLS, BASEMENT WALLS, ETC., SHALL BE ADEQUATELY WATERPROOFED AND DRAINED AS SPECIFIED BY OTHERS.

17. WHERE VERTICAL REINFORCING INTERSECTS HORIZONTAL REINFORCING, BOTH SHALL BE CONTINUOUS.

18. MAXIMUM HEIGHT FOR GROUT POUR SHALL NOT EXCEED 64" UNLESS A CLEANOUT IS PROVIDED AT THE BOTTOM OF EACH CELL CONTAINING REINFORCEMENT OR AT A MAXIMUM HORIZONTAL SPACING OF 32" WHICHEVER IS LESS.

19. FOLLOW ALL MANUFACTURER'S INSTALLATION RECOMMENDATIONS WHERE DOWELS, BOLTS, OR INSERTS ARE CALLED TO BE ANCHORED TO CAST IN PLACE CONCRETE ELEMENTS USING EPOXY ADHESIVES OR MECHANICAL ANCHORAGE.

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017876
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL
300 GIDNEY AVE. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

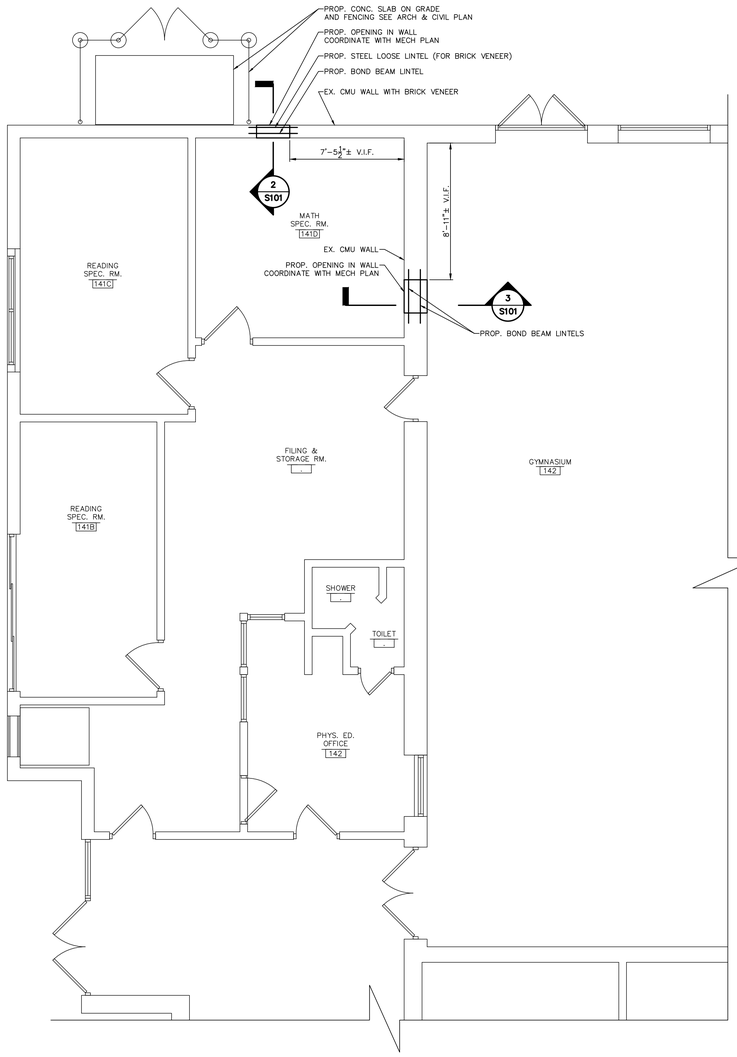
DATE: 11/12/2024

DRAWING NAME:

STRUCTURAL NOTES

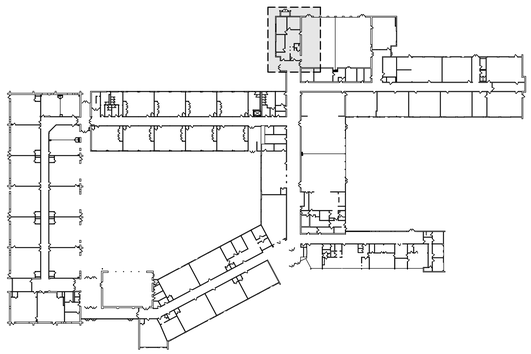
DRAWING NUMBER:

S001



1 S101 PARTIAL 1ST FLOOR PLAN

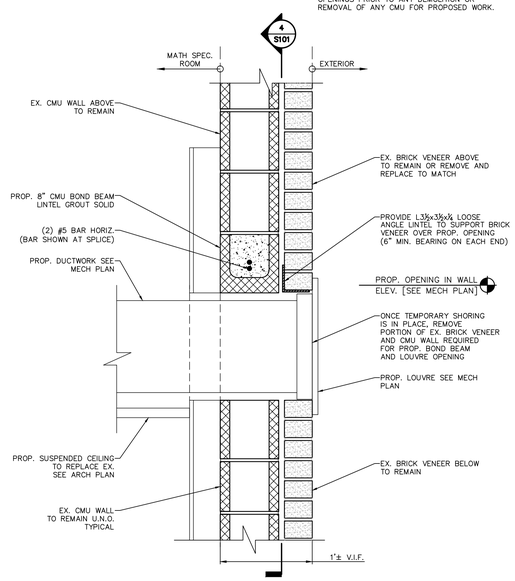
SCALE: 1/4" = 1'



5 S101 KEY PLAN

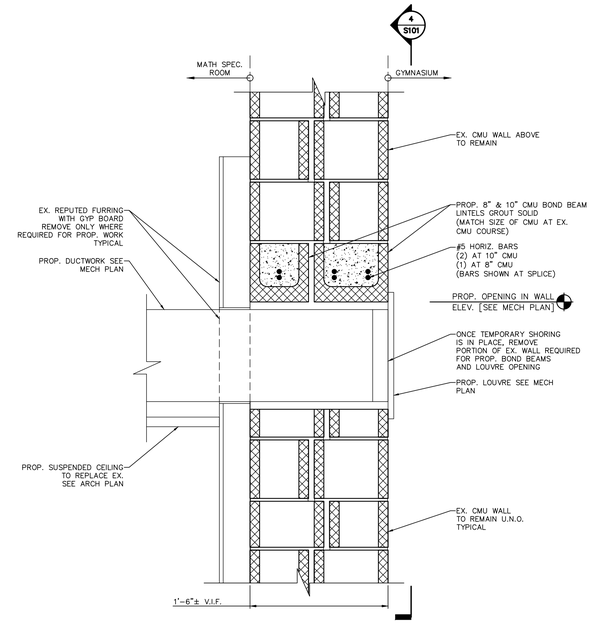
SCALE: NOT TO SCALE

NOTE: PROVIDE TEMPORARY SHORING TO SUPPORT CMU WALL, BRICK VENEER AND ROOF STRUCTURE ABOVE ALL PROPOSED OPENINGS PRIOR TO ANY DEMOLITION OR REMOVAL OF ANY CMU FOR PROPOSED WORK.



2 S101 SECTION AT EXTERIOR WALL

SCALE: 1-1/2" = 1'



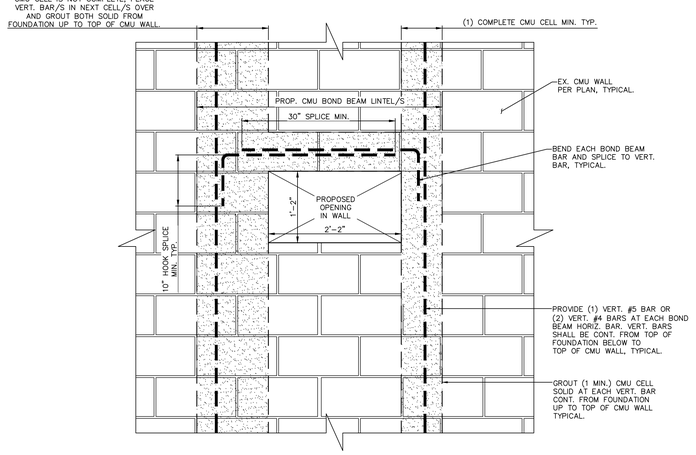
3 S101 SECTION AT GYMNASIUM WALL

SCALE: 1-1/2" = 1'

NOTES:

1. MAKE EVERY EFFORT POSSIBLE TO MINIMIZE DISTURBANCE AND DEMOLITION OF EXISTING CMU WALLS FOR PROPOSED WORK.
2. ONLY PLACE HOLES IN WALL AS REQUIRED FOR INSTALLATION OF PROPOSED DUNNAGE AND GROUTING OF EXISTING CMU CELLS.
3. FORM AND GROUT HOLES IN INTERIOR FACES OF CMU WALLS TO MATCH EXISTING FINISH OF WALL AS NEAR AS POSSIBLE. THIS INCLUDES THE FINISHED APPEARANCE OF MORTAR JOINTS THAT RETURNS WALL TO IT'S ORIGINAL APPEARANCE.
4. ONCE GROUTED AREAS HAVE CURED COMPLETELY, CLEAN, PRIME AND COAT ENTIRE INTERIOR WALL WITH TWO (2) COATS OF PAINT TO MATCH EXISTING COLOR.

AT LOCATIONS WHERE THE ADJACENT CMU CELL IS NOT COMPLETE, PLACE VERT. BAR/S IN NEXT CELL/S OVER AND GROUT BOTH SOLID FROM FOUNDATION UP TO TOP OF CMU WALL.



4 S101 TYPICAL CMU OPENING SECTION

SCALE: 1" = 1'

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVE. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

1ST FLOOR WALL PENETRATION PLAN & SECTIONS

DRAWING NUMBER:

S101

DRAWING SYMBOLS

CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
GHR	GLYCOL HOT WATER RETURN
GHS	GLYCOL HOT WATER SUPPLY
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
C	CONDENSATE
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
	DIRECTION OF FLOW
DN	DIRECTION OF PITCH
R	REFRIGERANT
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RG	REFRIGERANT GAS
SV	STEAM VENT
HPLR	HEAT PUMP LOOP RETURN
HPLS	HEAT PUMP LOOP SUPPLY
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
MU	MAKE-UP WATER
NG	NATURAL GAS
PC	PUMPED CONDENSATE
VAC	VACUUM
IW	INDIRECT WASTE

EXISTING DUCTWORK, PIPE, EQUIPMENT

NEW DUCTWORK, PIPE, EQUIPMENT

DUCTWORK, PIPE, EQUIPMENT TO BE REMOVED

PIPE TURNED UP

PIPE TURNED DOWN

BRANCH OFF TOP OF PIPE

BRANCH OFF BOTTOM OF PIPE

REDUCER

PIPE BREAK

BALL VALVE

BUTTERFLY VALVE

GATE VALVE

SHUT OFF VALVE (GATE, BALL, OR BUTTERFLY - REFER TO SPECS)

CHECK VALVE

BALANCE VALVE

ANGLE VALVE

PRESSURE REDUCING VALVE

STEAM TRAP

MOTOR OR SOLENOID CONTROL VALVE

MOTOR OR SOLENOID CONTROL VALVE (3-WAY)

TRIPLE DUTY VALVE

RELIEF VALVE

STRAINER

UNION

PRESSURE GAUGE

PUMP

EQUIPMENT TO BE REMOVED

VRF FAN COIL CASSETTE UNIT

REMOVE TO THIS POINT)

NEW CONNECTION TO EXISTING

SECTION CALLOUT (A / M-2)

DETAIL NUMBER (A / M-2)

DEMOLITION KEYNOTE (1)

KEYNOTE (1)

RETURN AIR

SUPPLY AIR

DUCT (DIMENSIONS SHOWN IN DUCT. DIMENSIONS IN INCHES.) (18/8)

DUCT (DIMENSIONS SHOWN BY LEADER. DIMENSIONS IN INCHES.) (18/8)

FLEX DUCT

DUCT SECTION - SUPPLY AIR

DUCT SECTION - EXHAUST AIR

DUCT SECTION - RETURN AIR

VOLUME DAMPER

14" ROUND DUCT (14" Ø)

18" x 8" FLAT OVAL DUCT (18/8 =)

NOTE:
NOT ALL SYMBOLS, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/ OR EXCLUSIONS OF ANY PARTICULAR ITEM FROM THIS PROJECT.

LINED DUCT (DIM. IS INTERNAL) (18/8)

MITERED ELBOW W/ TURNING VANES

WALL OR DUCT MOUNTED SUPPLY GRILLE

WALL OR DUCT MOUNTED RETURN OR EXHAUST GRILLE

FIRE DAMPER (FD / AD)
ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

SMOKE DAMPER (SD / AD)
ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

COMBINATION FIRE / SMOKE DAMPER (F/S / AD)
ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

MOTOR OPERATED DAMPER (M)

TEMPERATURE SENSOR (T)

SENSOR (S)

HUMIDISTAT (H)

CARBON DIOXIDE SENSOR (CO2)

EXHAUST GRILLE

SUPPLY DIFFUSER

RETURN GRILLE

REGISTER OR GRILLE - TOP NUMBER REPRESENTS TAG, SEE SCHEDULE; BOTTOM NUMBER REPRESENTS CFM. (8 / 750)

DIFFUSER - LETTER REPRESENTS TAG, SEE SCHEDULE; NUMBER REPRESENTS CFM (A / 125)

GENERAL NOTES

DUCTWORK GENERAL NOTES

1 HVAC CONTRACTOR TO PROVIDE CRANE AND NECESSARY EQUIPMENT TO HOIST ROOF MOUNTED HVAC EQUIPMENT FROM SITE TO FINAL ROOF LOCATION. GENERAL CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS REQUIRED TO ACCOMMODATE HVAC EQUIPMENT OPENINGS AND SET CURBS. HVAC CONTRACTOR TO COORDINATE EXACT LOCATION OF PENETRATIONS WITH G.C. AND SHALL ASSIST WITH SETTING ALL HVAC EQUIPMENT ROOF CURBS. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY CAP OF ALL ROOF PENETRATIONS IN INTERIM FROM TIME PENETRATIONS ARE COMPLETE TO TIME EQUIPMENT IS SET ON ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL EQUIPMENT CURBS AND OTHER HVAC RELATED ROOF PENETRATIONS. HVAC CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY CAP WHEN EQUIPMENT IS SET IN PLACE.

2 PROVIDE 45 DEGREE SHOE-TAP FITTING AND VOLUME DAMPER AT ALL BRANCH DUCT TAKE-OFFS. (TOP, SIDE AND BOTTOM) FOR SUPPLY, RETURN AND EXHAUST AIR, UNLESS SHOWN OR NOTED OTHERWISE. VOLUME DAMPERS SHALL BE OMITTED FROM VAV INLET BRANCH DUCTWORK.

3 COORDINATE HVAC INSTALLATION WITH STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.

4 INSULATE OR LINE DUCTWORK AS SPECIFIED IN THE MECHANICAL INSULATION AND METAL DUCTS SPECIFICATIONS OR NOTED ON DRAWINGS. NOTE THAT DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE NET CLEAR DIMENSIONS.

5 ALL 90 DEGREE RECTANGULAR ELBOWS AND DUCTWORK TEES SHALL BE HARD MITERED WITH FACTORY TURNING VANES. TURNING VANES SHALL BE OMITTED FROM AIR TRANSFER DUCT ELBOWS.

6 ALL DUCTWORK PASSING THROUGH NON-FIRE RATED WALLS TO BE SEALED AROUND PERIMETER (BOTH SIDES) WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.

7 INLET OF VAV BOX TO BE ARRANGED SUCH THAT THERE IS NO RESTRICTION OF AIRFLOW. THERE SHALL BE A MINIMUM OF THREE DUCT DIAMETERS OF STRAIGHT DUCT (FLEX DUCT WILL NOT BE PERMITTED) UPSTREAM OF THE INLET. INLET DUCT SIZE TO BE SAME SIZE AS VAV BOX INLET COLLAR UNLESS NOTED OTHERWISE. REFER TO VAV BOX INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

8 HVAC CONTRACTOR TO PROVIDE ALL WALL & ROOF PENETRATIONS 8"x8" OR SMALLER. ALL PENETRATIONS LARGER THAN 8"x8" IS THE RESPONSIBILITY OF THE G.C. COORDINATE ALL 8"x8" OR LARGER PENETRATION LOCATIONS WITH G.C. LINTELS (BY G.C.) REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. PENETRATIONS AND LINTEL LOCATIONS TO BE COORDINATED WITH G.C. AND DOCUMENTED ON COORDINATION DRAWINGS.

9 BALANCING CONTRACTOR TO SET MINIMUM OUTSIDE AIR DAMPER POSITION TO MEET VENTILATION AIR QUANTITIES REQUIRED AS SHOWN ON PLANS OR LISTED IN EQUIPMENT SCHEDULES.

10 NATURAL GAS PIPING WHERE REQUIRED SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR, WHICH SHALL INCLUDE FINAL CONNECTIONS TO HVAC EQUIPMENT. COORDINATE ALL EQUIPMENT LOCATIONS THAT REQUIRE NATURAL GAS WITH THE PLUMBING CONTRACTOR.

11 ALL SUPPORT OF EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE STRUCTURAL STEEL WHERE REQUIRED IN ORDER TO SUPPORT EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES WHERE THE BUILDING STRUCTURE SPACING IS TOO GREAT TO ALLOW DIRECT SUPPORT. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMATION OF ALL SUPPORTS AND SHALL OBTAIN THE PROFESSIONAL SERVICE OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND FURNISH SEALED DRAWINGS AND DETAILS ILLUSTRATING SUCH SUPPORTS AND COMPLIANCE METHODS.

12 INSULATE ALL DUCTWORK PER NYS ENERGY CODE.

APPLICABLE CODES

1 BUILDING CODE OF NEW YORK STATE
2 ENERGY CODE OF NEW YORK STATE
3 MECHANICAL CODE OF NEW YORK STATE
4 FIRE CODE OF NEW YORK STATE
5 PLUMBING CODE OF NEW YORK STATE
6 ENERGY CONSERVATION CODE OF NEW YORK STATE
7 ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1
8 NATIONAL ELECTRIC CODE
9 NATIONAL FIRE CODE NFPA 13

EQUIPMENT DESIGNATIONS

ACU	AIR CONDITIONING UNIT
AHU	AIR HANDLING UNIT
AD	ACCESS DOOR
AS	AIR SEPARATOR
BDD	BACK DRAFT DAMPER
B	BOILER
CA	AIR COMPRESSOR
CAV	CONSTANT AIR VOLUME BOX
CC	COOLING COIL
CFP	CHEMICAL FEED PUMP
CH	CHILLER
CHP	CHILLED WATER PUMP
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM UNIT
CRU	CONDENSATE RETURN UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DHW	DOMESTIC WATER HEATER
EF	EXHAUST FAN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
FP	FIRE PUMP
FT	FINNED TUBE
HC	HEATING COIL
HP	HEAT PUMP
HU	HUMIDIFIER
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
L	LOUVER
MAU	MAKE UP AIR UNITS
MD	MOTORIZED DAMPER
P	PUMP
PHC	PREHEAT COIL
PPU	PUMPING PACKAGED UNIT
PRG	GAS PRESSURE REGULATOR
PRV	PRESSURE REDUCING VALVE
R	REGISTER
RCP	RADIANT CEILING PANEL
RTU	ROOF TOP UNIT
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME BOX
VD	VOLUME DAMPER
VFD	VARIABLE SPEED DRIVE
WU-G	WINDOW UNIT MOUNTED IN GLASS
WU-W	WINDOW UNIT MOUNTED IN WALL
WS	WATER SOFTENER

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

ABBREVIATIONS

%	PERCENT
AC	ALTERNATING CURRENT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
AMB	AMBIENT
AMP	AMPERE (AMP,AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APPROX	APPOROXIAMTE (LY)
AVG	AVERAGE
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BO	BOTTOM OF
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BV	BALANCING VALVE
CAP	CAPACITY
CIP	CAST IRON PIPE
CLG	CEILING
CLR	CLEAR
CO	CLEANOUT or CARBON MONOXIDE
COL	COLUMN
CONN	CONNECTION
CONC	CONCRETE
CONT	CONTINUOUS
CU FT	CUBIC FEET
CV	VALVE FLOW COEFFICIENT
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DETECTOR CHECK VALVE
DCW	DOMESTIC COLD WATER
DEMO	DEMOLISH or DEMOLITION
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWH	DOMESTIC WATER HEATER
DWV	DRAIN, WASTE, & VENT
DWG	DRAWING
(E)	EXISTING
ENGR	ENGINEER
EQ	EQUAL
EST	ESTIMATED
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
°F	DEGREES FAHRENHEIT
FA	FREE AREA
FIN	FINISHED
FL	FLOOR
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT OR FEET
FUT	FUTURE
GA	GAGE OR GAUGE
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HR	HOUR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	FREQUENCY
ID	DIAMTER, INSIDE
IN	INCH
INSUL	INSULATION
INT	INTERIOR
IPS	IRON PIPE SIZE
INV	INVERT
KW	KILOWATT
KWH	KILOWATT HOUR
LBS	POUNDS
LF	LINEAR FEET
LG	LENGTH
LOC	LOCATION
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MATL	MATERIAL
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPT	NATIONAL PIPE TREAD
NRS	NON-RISING STEM
NTS	NOT TO SCALE
OC	ON CENTER
OD	DIAMETER, OUTSIDE
OSSY	OUTSIDE SCREW AND YOKE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PH	PHASE (ELECTRICAL)
PRESS	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GUAGE
PRV	PRESSURE REDUCING VALVE
RCVR	RECEIVER
RECIRC	RECIRCULATE
RHW	HOT WATER RE-CIRCULATION
RO	ROUGH OPENING
RPDA	REDUCED-PRESSURE DETECTOR ASSY.
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED-PRESSURE ZONE
SCH	STEAM CAPTURE HOOD
SPEC	SPECIFICATION
SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH (INCHES)
STD	STANDARD
SUCT	SUCTION
TSTAT	THERMOSTAT
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL CONTRACTOR
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TO	TOP OF
TYP	TYPICAL
V	VOLT
VAC	VACUUM
VAR	VARIABLE
VEL	VELOCITY
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WATT
W/	WITH
W/O	WITH OUT
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTER
WM	WATER METER
WPD	WATER PRESSURE DROP
WT	WEIGHT
WWP	WORKING WATER PRESSURE

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

MECHANICAL SHEET LIST

Sheet Number	Sheet Name	Drawn By	Approved By
M001	MECHANICAL LEGEND SHEET	DRM	MB
M002	VENTILATION TABLE	DRM	MB
MD101	FIRST FLOOR DEMOLITION PLAN	DRM	MB
MD102	SECOND FLOOR DEMOLITION PLAN	DRM	MB
M101	FIRST FLOOR DUCTWORK PLAN	DRM	MB
M102	SECOND FLOOR MECHANICAL PLAN	DRM	MB
M103	ROOF MECHANICAL PLAN	DRM	MB
M201	FIRST FLOOR PIPING PLAN	DRM	MB
M202	SECOND FLOOR PIPING PLAN	DRM	MB
M401	FIRST FLOOR PIPING PLAN - ENLARGED VIEWS	DRM	MB
M501	MECHANICAL DETAILS	DRM	MB
M601	MECHANICAL SCHEDULES	DRM	MB
M701	MECHANICAL CONTROLS	DRM	MB

Grand total: 13

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

MECHANICAL LEGEND SHEET

DRAWING NUMBER:

M001

11/11/2024 3:48:10 PM

Room Name	Unit	Square Footage	Type	Occupancy Density/1000sf	Calculated Occupancy	Max Occupancy	OA/person	CFM/SF	Code OA (cfm)	Provided OA (cfm)
110 - Classroom	UV-110	850	Classroom	25	22	22	10	0.12	322	390
111 - Classroom	UV-111	850	Classroom	25	22	22	10	0.12	322	390
112 - Classroom	UV-112	1000	Classroom	25	25	25	10	0.12	370	390
113 - 1st Grade Classroom	UV-113	980	Classroom	25	25	25	10	0.12	367.6	390
114 - 1st Grade Classroom	UV-114	1000	Classroom	25	25	25	10	0.12	370	390
115 - 1st Grade Classroom	UV-115	980	Classroom	25	25	25	10	0.12	367.6	390
116 - Classroom	UV-116	1000	Classroom	25	25	25	10	0.12	370	390
117 - 1st Grade Classroom	UV-117	450	Classroom	25	12	12	10	0.12	174	190
118 - Classroom	UV-118	450	Classroom	25	12	12	10	0.12	174	190
119 - 1st Grade Classroom	UV-119	980	Classroom	25	25	25	10	0.12	367.6	390
120- Primary Resource	UV-120	1000	Classroom	25	25	25	10	0.12	370	390
121 - Primary Resource	UV-121	980	Classroom	25	25	25	10	0.12	367.6	390
122 - Classroom	UV-122	480	Classroom	25	12	12	10	0.12	177.6	190
123 - Kindergarten Classroom	UV-123	480	Classroom	25	12	12	10	0.12	177.6	190
124 - Intermediate Resource	UV-116A	990	Classroom	25	25	25	10	0.12	368.8	390
125 - Intermediate Resource	UV-116B	980	Classroom	25	25	25	10	0.12	367.6	390
142 - Gym	AHU-1 & AHU-2	3830	Multi-Use Assembly	100	383	300	7.5	0.06	2479.8	2684
137 - Cafeteria	RTU-1 & RTU 2	3595	Cafeteria	100	360	360	7.5	0.18	3347.1	4000

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
1	8/30/2024	SED ADDENDUM 2
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

VENTILATION TABLE

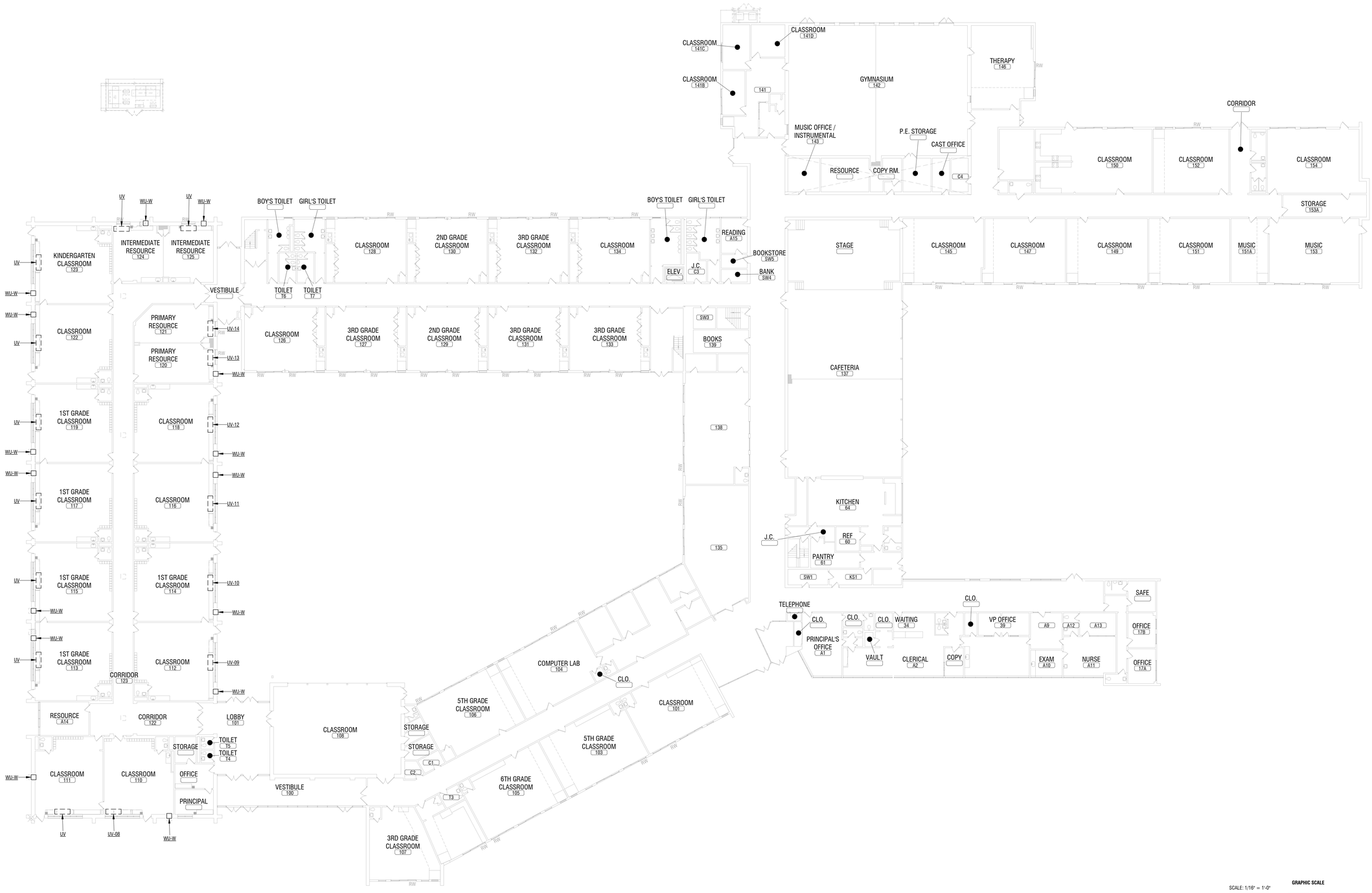
DRAWING NUMBER:

M002

11/11/2024 3:49:10 PM

MECHANICAL NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING OUTSIDE AIR LOUVER TO REMAIN FOR RECONNECTION. CLEAN LOUVER AND TRANSFER DUCT. REPORT PROBLEMS TO ENGINEER.
2. REMOVE EXISTING WINDOW AIR CONDITIONING UNITS IN THEIR ENTIRETY.



1 MD101 FIRST FLOOR DEMOLITION PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 3:48:11 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL
300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

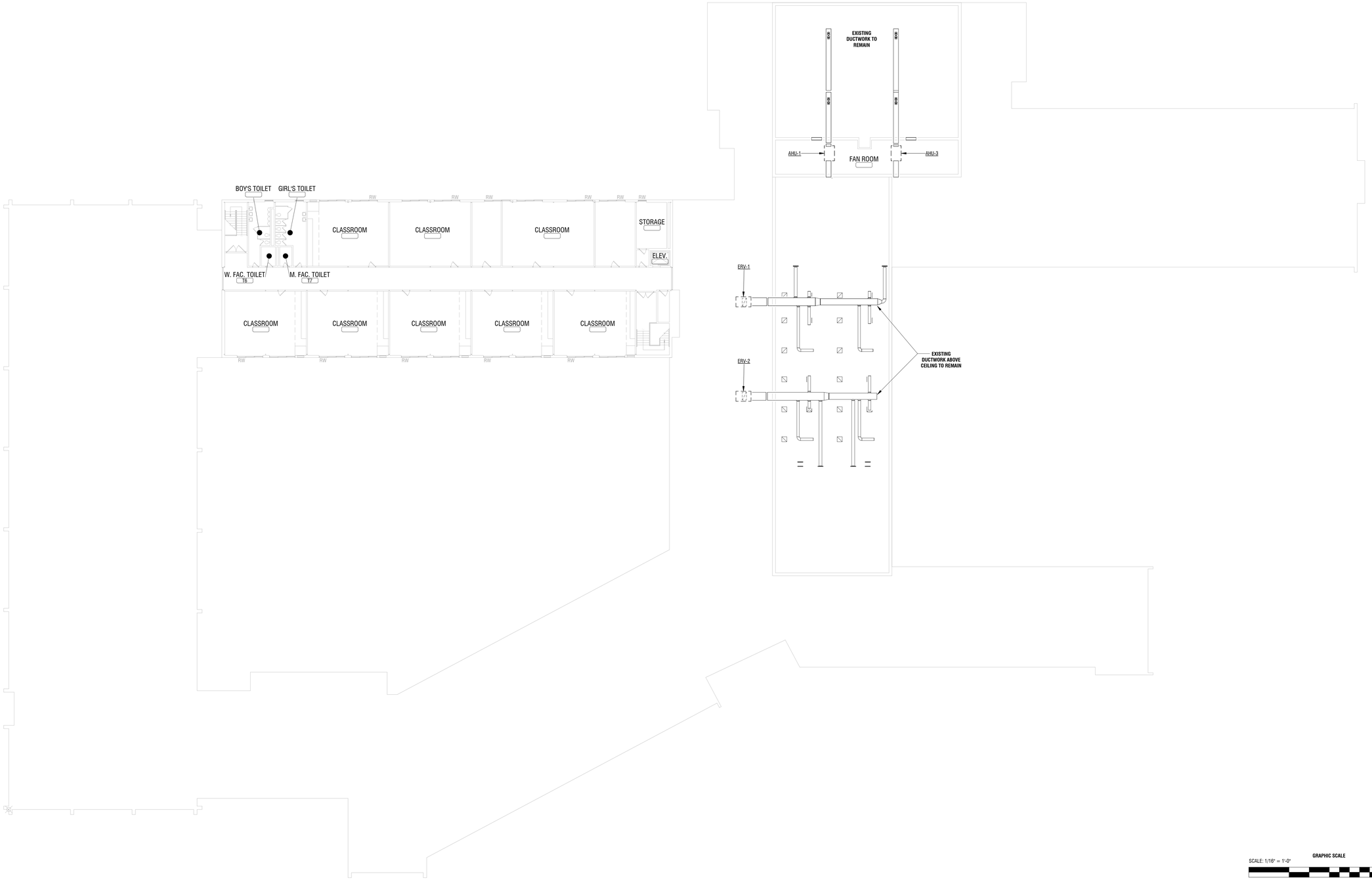
FIRST FLOOR DEMOLITION PLAN

DRAWING NUMBER:

MD101

MECHANICAL NOTES:

1. REMOVE EXISTING AIR HANDLING UNIT. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING OUTSIDE AIR DUCTWORK TO REMAIN FOR RECONNECTION.



1 MD102 SECOND FLOOR DEMOLITION PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/12/2024 9:27:10 AM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR DEMOLITION PLAN

DRAWING NUMBER:

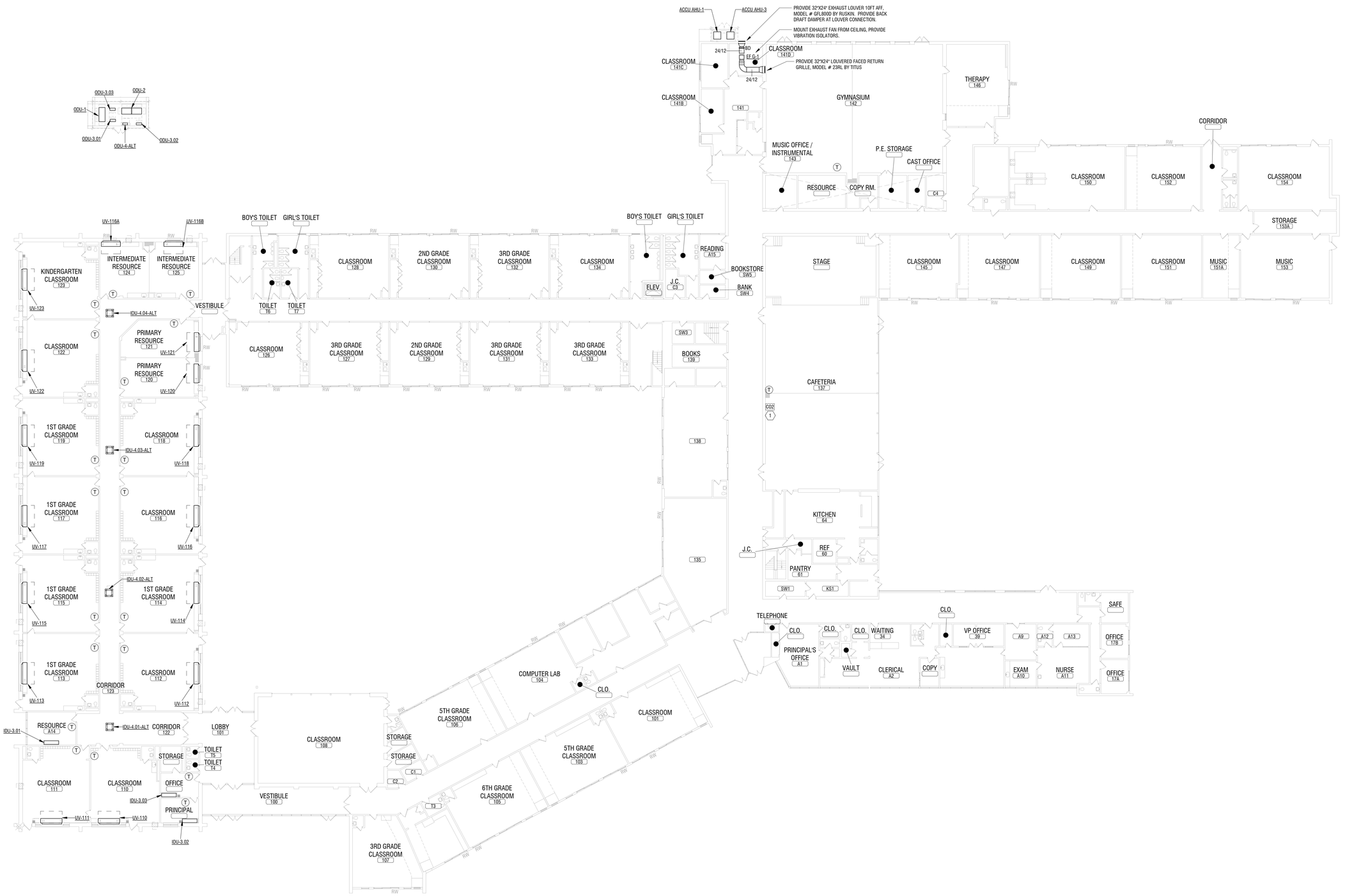
MD102

MECHANICAL NOTES:

1. CONTRACTOR TO CONFIRM DUCTWORK SIZE AND REPORT BACK TO ENGINEER
2. PROVIDE TEMPERATURE SENSOR AND TIE BACK TO BMS SYSTEM (TYP.)

KEY NOTES:

1. CO2 SENSOR TO BE LOCATED 54" A.F.F. IN BREATHING ZONE FOR DCV; REDUNDANT CO2 SENSOR TO BE INSTALLED AT EACH LOCATION (TYP). PROVIDE PROTECTIVE COVER FOR EACH SENSOR INSTALLED.



1 M101 FIRST FLOOR MECHANICAL PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 3:48:13 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL
300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
4	10-4-2024	SED ADDENDUM 5
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

FIRST FLOOR DUCTWORK PLAN

DRAWING NUMBER:

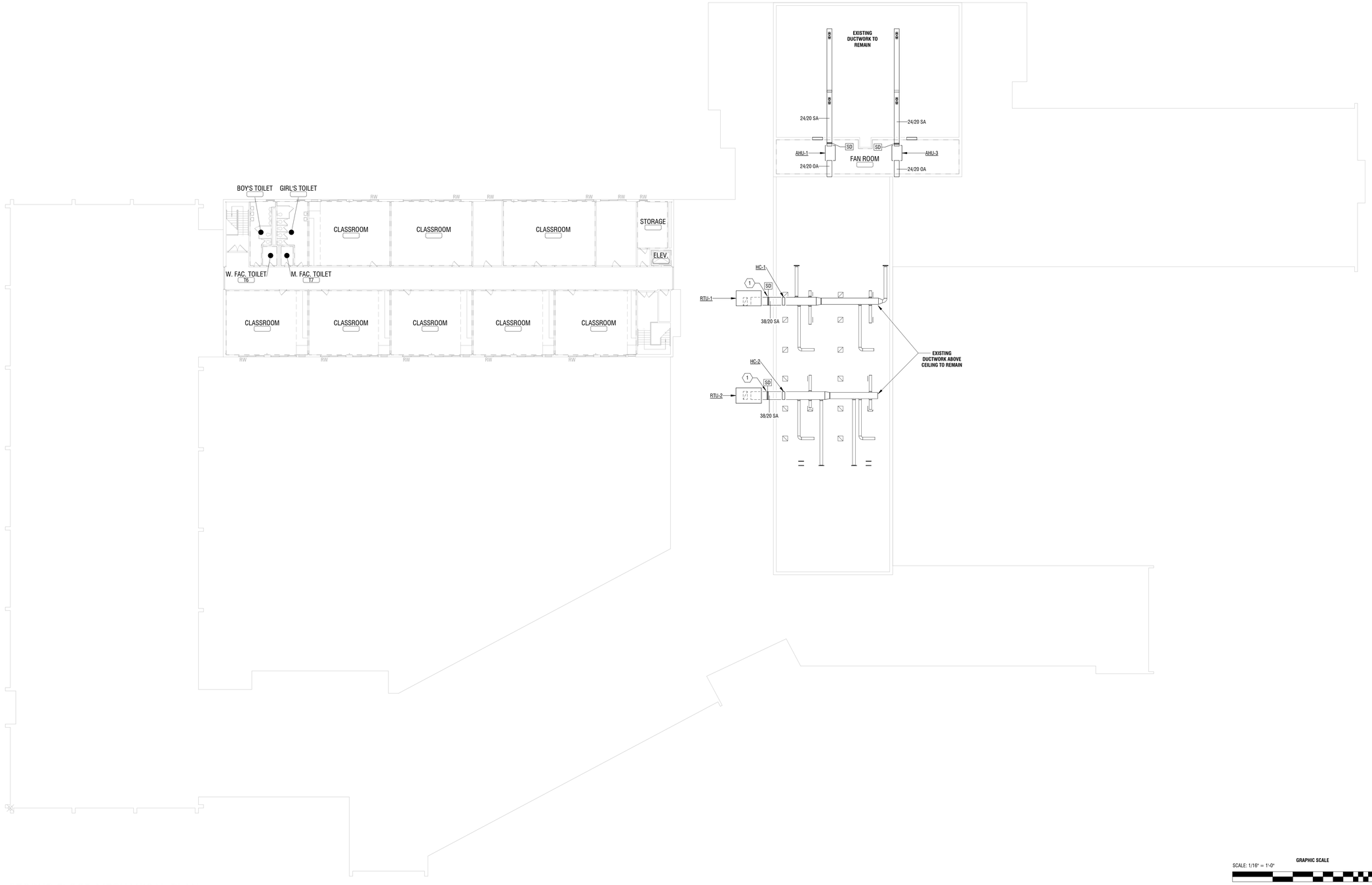
M101

MECHANICAL NOTES:

1. PROVIDE AHU AS SCHEDULED. RECONNECT TO EXISTING HWS/HWR PIPING ROUGH-INS. PROVIDE VALVES AND ACCESSORIES AS DETAILED. RECONNECT TO EXISTING DUCTWORK. PROVIDE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.

KEY NOTES:

(1) PROVIDE DUCT MOUNTED SMOKE DETECTOR RATED FOR VELOCITY OF CORRESPONDING SUPPLY DUCT (TYP).



1 M102 SECOND FLOOR MECHANICAL PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 3:48:13 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL
300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
4	10-4-2024	SED ADDENDUM 5
3	09-20-2024	SED ADDENDUM 4
2	9/13/2024	SED ADDENDUM 3
1	8/30/2024	SED ADDENDUM 2
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR MECHANCIAL PLAN

DRAWING NUMBER:

M102

1 M103 ROOF MECHANICAL PLAN
1/16" = 1'-0"

11/11/2024 3:49:14 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

ROOF MECHANICIAL PLAN

DRAWING NUMBER:

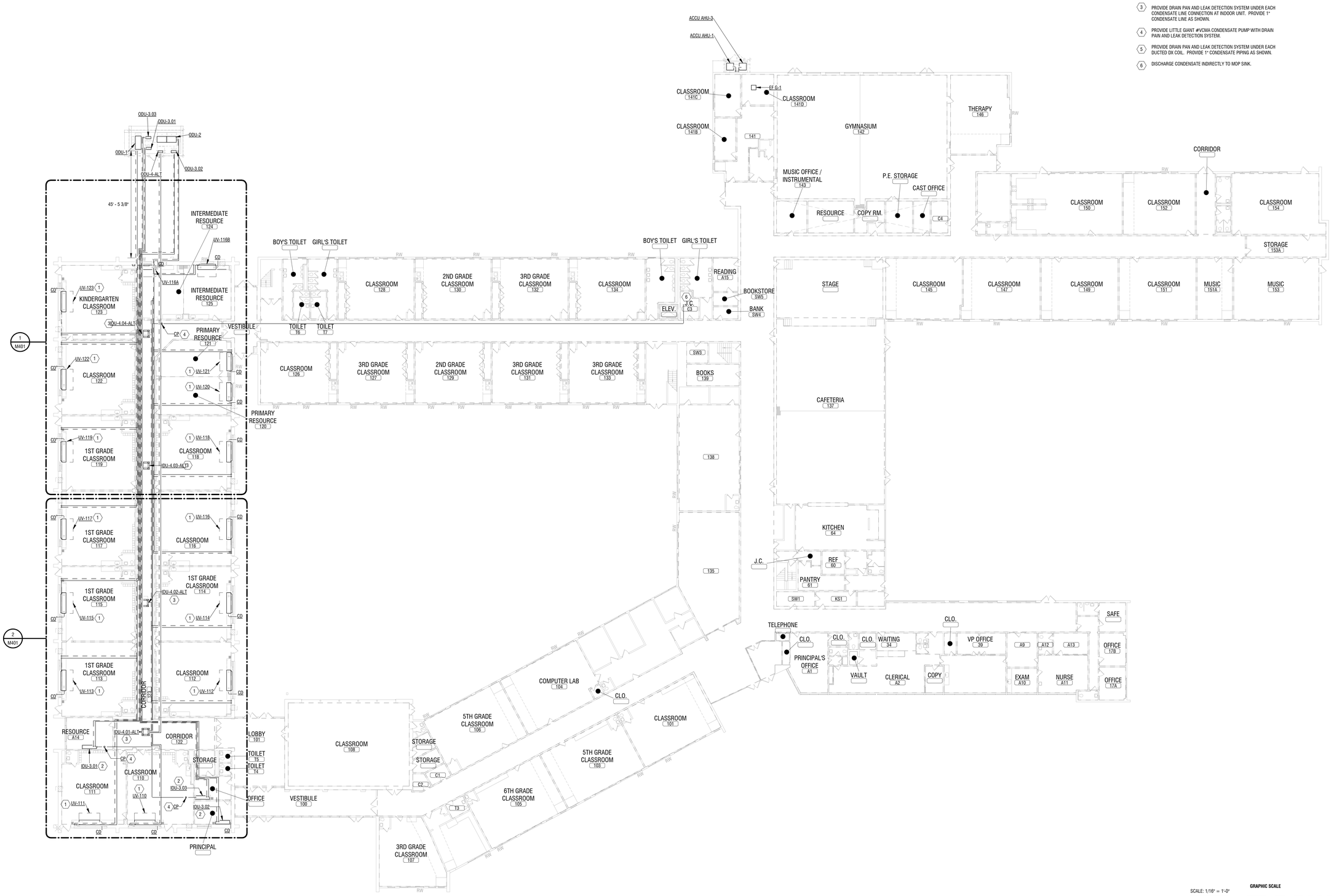
M103

MECHANICAL NOTES:

1. CONTRACTOR TO PROVIDE PIPE EXPANSION AS REQUIRED.

KEY NOTES:

1. RECONNECT EXISTING 1" HWS/HWR PIPING TO HOT WATER COIL WITHIN UV. PROVIDE A SHUT OFF VALVE ON THE HWS PIPE CONNECTION. PROVIDE A SHUT OFF VALVE AND BALANCING VALVE ON THE HWR PIPE CONNECTION. PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO REFRIGERANT COIL WITHIN UV AS SIZED AND DIRECTED BY MANUFACTURER. PROVIDE 1" CONDENSATE PIPE DISCHARGE TO THE EXTERIOR WALL, DRAINED BY GRAVITY.
2. PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO REFRIGERANT COIL WITHIN UV AS SIZED AND DIRECTED BY MANUFACTURER. PROVIDE 1" CONDENSATE PIPING TO THE CLOSEST EXTERIOR WALL, DRAINED BY GRAVITY.
3. PROVIDE DRAIN PAN AND LEAK DETECTION SYSTEM UNDER EACH CONDENSATE LINE CONNECTION AT INDOOR UNIT. PROVIDE 1" CONDENSATE LINE AS SHOWN.
4. PROVIDE LITTLE GIANT #VCMA CONDENSATE PUMP WITH DRAIN PAIN AND LEAK DETECTION SYSTEM.
5. PROVIDE DRAIN PAN AND LEAK DETECTION SYSTEM UNDER EACH DUCTED DX COIL. PROVIDE 1" CONDENSATE PIPING AS SHOWN.
6. DISCHARGE CONDENSATE INDIRECTLY TO MOP SINK.



1 M201 FIRST FLOOR MECHANICAL PIPING PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 3:48:15 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL
300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

FIRST FLOOR PIPING PLAN

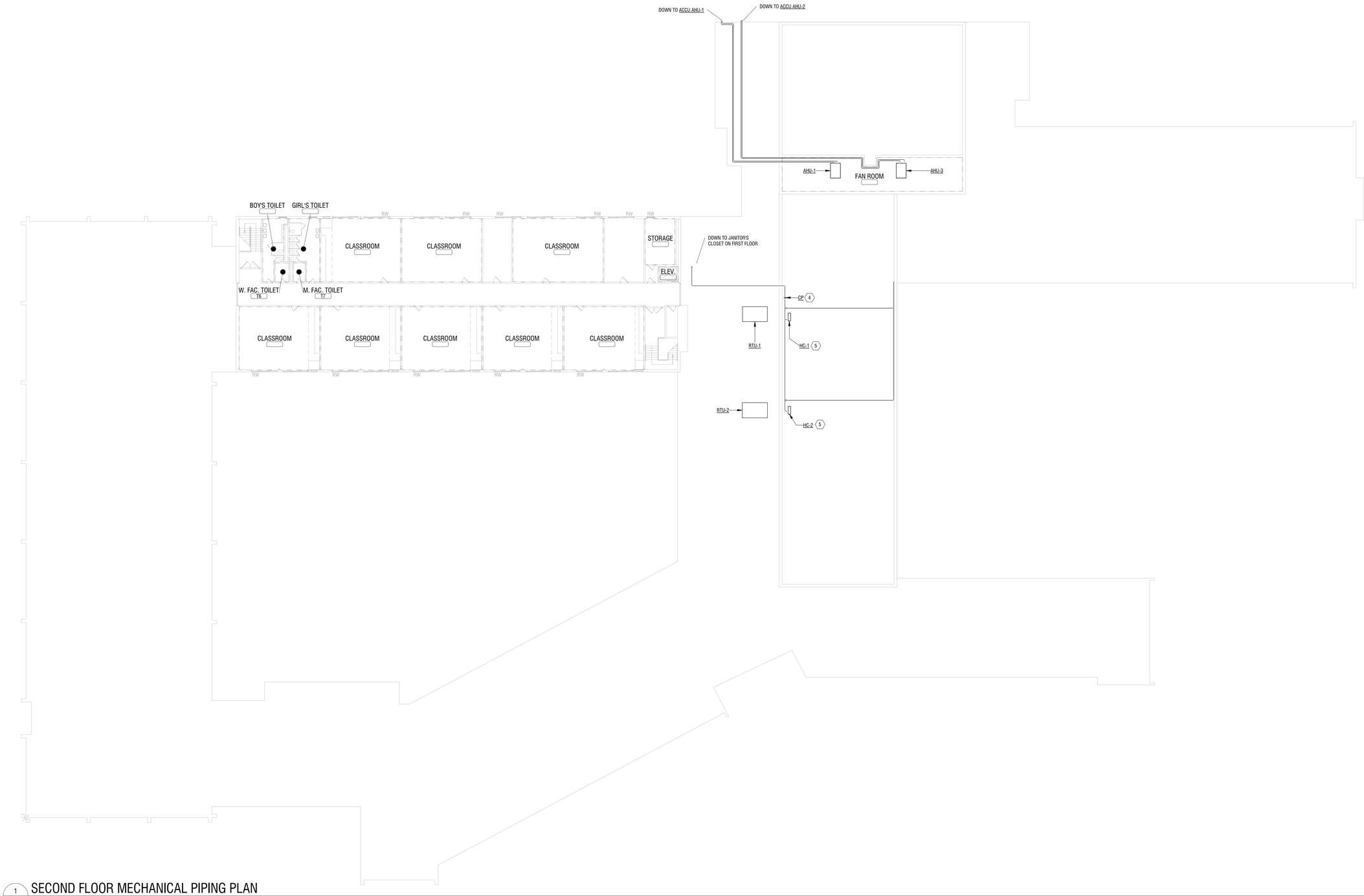
DRAWING NUMBER:

M201

KEY NOTES:

4 PROVIDE LITTLE GIANT #VCMA CONDENSATE PUMP WITH DRAIN PAIN AND LEAK DETECTION SYSTEM.

5 PROVIDE DRAIN PAN AND LEAK DETECTION SYSTEM UNDER EACH DUCTED DX COIL. PROVIDE 1" CONDENSATE PIPING AS SHOWN.



1 M202 SECOND FLOOR MECHANICAL PIPING PLAN

1/16" = 1'-0"

11/11/2024 3:49:16 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: DRM

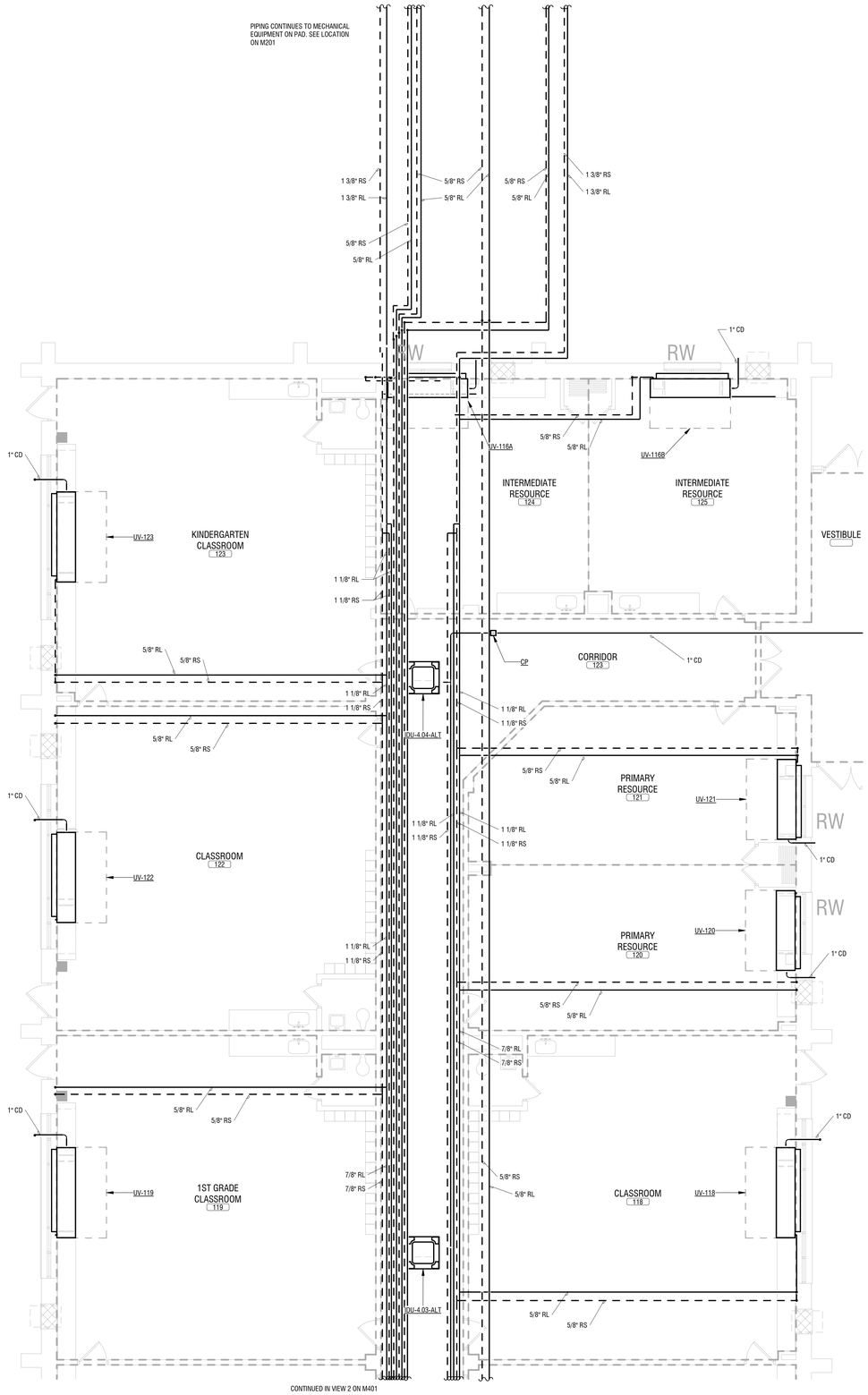
REVIEWED BY: MB

ISSUED FOR: BID

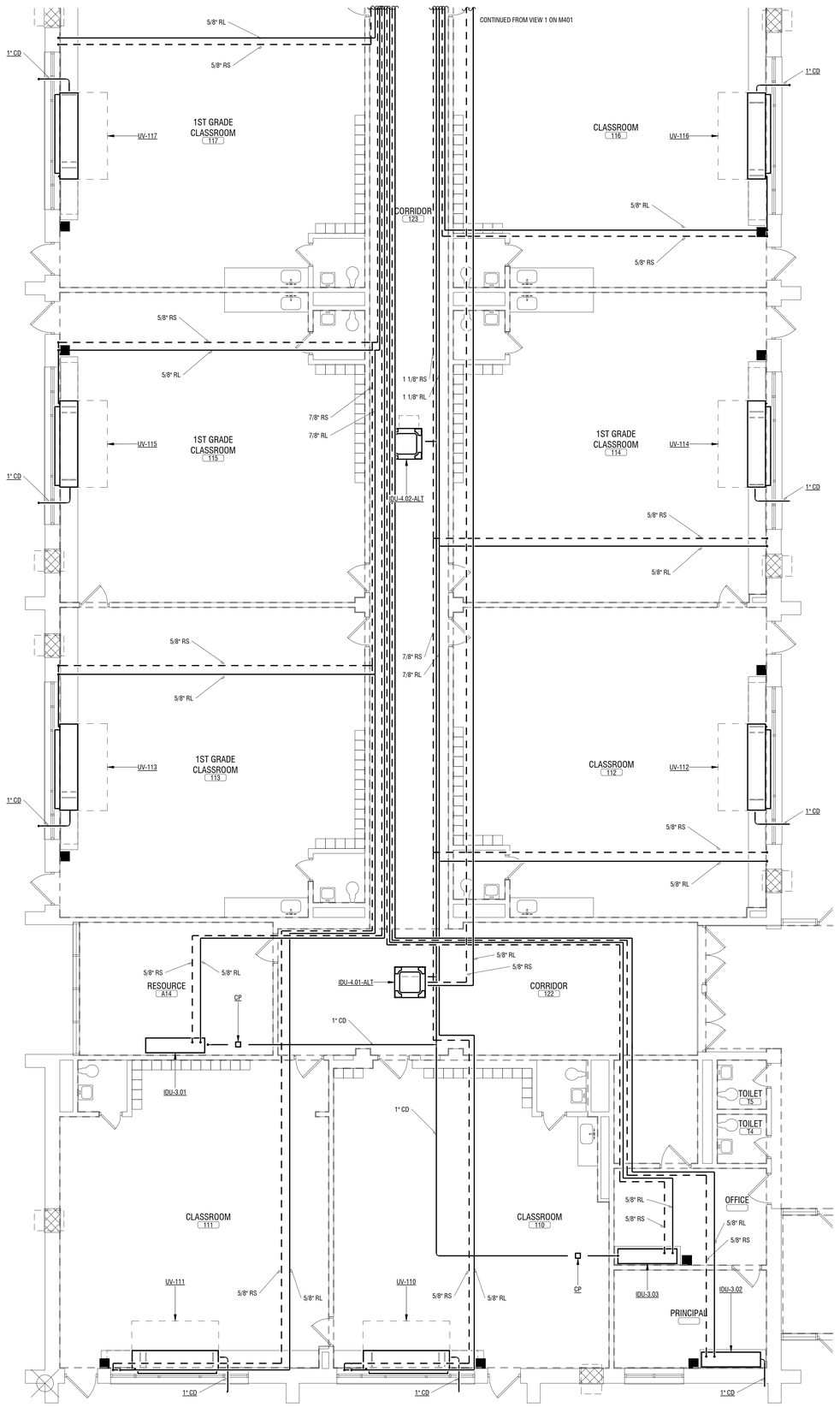
DATE: 11/12/2024

DRAWING NAME: SECOND FLOOR PIPING PLAN

DRAWING NUMBER: M202



1 M401 FIRST FLOOR MECHANICAL PIPING ENLARGED PLAN - NORTH
3/16" = 1'-0"



2 M401 FIRST FLOOR MECHANICAL PIPING ENLARGED PLAN - SOUTH
3/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

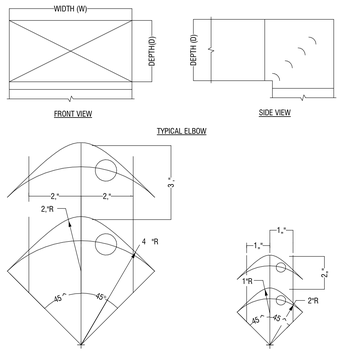
S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

FIRST FLOOR PIPING PLAN - ENLARGED VIEWS

DRAWING NUMBER:

M401

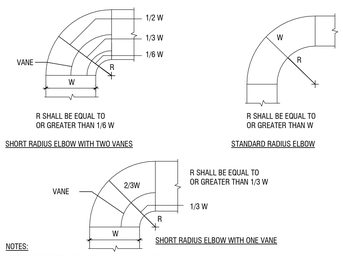
11/11/2024 3:49:16 PM



NOTES:

1. ALL SQUARE OR RECTANGULAR ELBOWS SHALL HAVE ONE OF THE TWO TYPES OF TURNING VANES SHOWN ABOVE. SINGLE VANE ELBOWS SHALL NOT BE PERMITTED.
2. CONSTRUCT, SUPPORT, AND FASTEN ALL VANES AS RECOMMENDED BY SMACNA.
3. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR EXHAUST OR RETURN DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE PERMITS RADIUS INSTALLATION.
4. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR SUPPLY DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE PERMITS RADIUS INSTALLATION AND/OR THERE IS NO OUTLET OR TAKE-OFF WITHIN 5D ON THE DOWNSTREAM SIDE OF THE ELBOW.

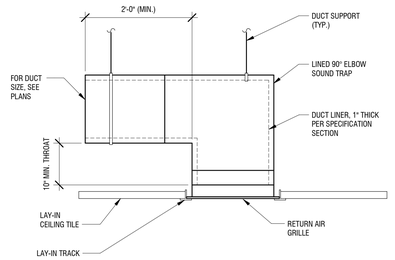
1 M501 DUCT - SQUARE OR RECTANGULAR ELBOWS
NOT TO SCALE



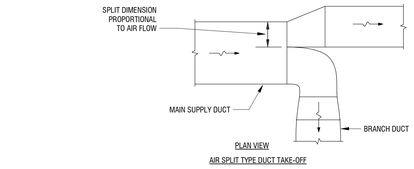
NOTES:

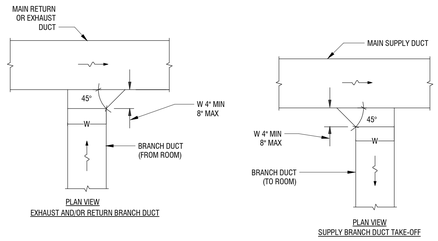
1. MAKE THE INTERIOR SURFACE OF ALL RADIUS ELBOWS ROUND.
2. MAKE ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS HAVE VANES, AND VANES ARE CONSTRUCTED, SUPPORTED AND FASTENED IN ACCORDANCE WITH SMACNA.

2 M501 DUCT - TYPICAL RADIUS ELBOWS
NOT TO SCALE



3 M501 DUCT - AT - RETURN GRILLE W/ SOUND/LIGHT TRAP
NOT TO SCALE





4 M501 DUCT - TYPICAL DUCTWORK DETAILS
NOT TO SCALE

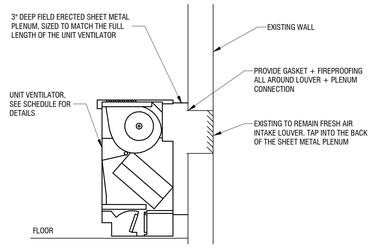
NOTES:

1). ALL DUCTWORK AND DIFFUSER CONNECTIONS SHALL MEET SMACNA STANDARDS.

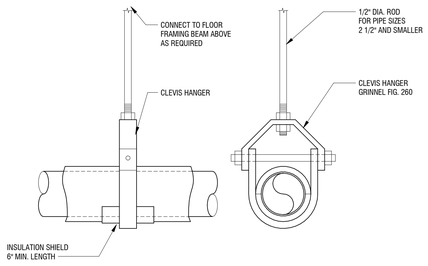
2). EXCESSIVE USE OF FLEX DUCTWORK AND OFFSETS IN EXCESS OF 45 DEGREES WILL BE REJECTED AT TIME OF PROJECT INSPECTION AND RE-INSTALLED AT THE CONTRACTORS EXPENSE.

3). COORDINATE DIFFUSER AND BRANCH DUCTWORK LOCATIONS WITH REFLECTED CEILING PLAN TO MAINTAIN ACCURACY.

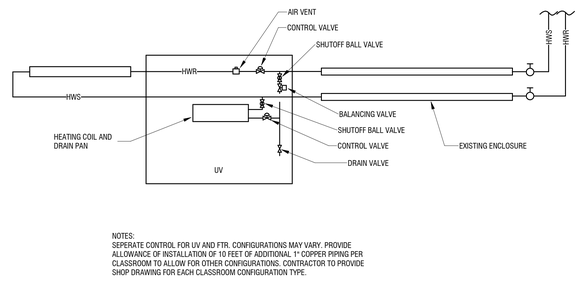
5 M501 DUCT - AT - DIFFUSER DETAIL
NOT TO SCALE



6 M501 UNIT VENTILATOR PLENUM DETAIL
NOT TO SCALE

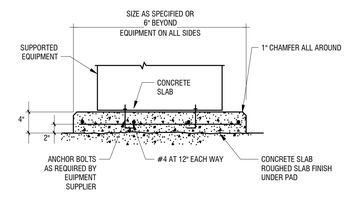


7 M501 PIPE - PIPE SUPPORT DETAIL
NOT TO SCALE

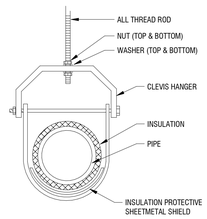


NOTES:
SEPERATE CONTROL FOR UV AND FTR. CONFIGURATIONS MAY VARY. PROVIDE ALLOWANCE OF INSTALLATION OF 10 FEET OF ADDITIONAL 1" COPPER PIPING PER CLASSROOM TO ALLOW FOR OTHER CONFIGURATIONS. CONTRACTOR TO PROVIDE SHOP DRAWING FOR EACH CLASSROOM CONFIGURATION TYPE.

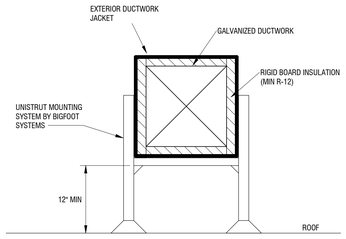
8 M501 VRV UNIT VENTILATOR PIPING DETAIL
NOT TO SCALE



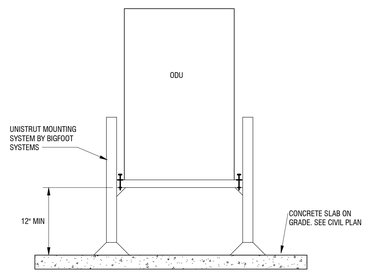
9 M501 S - HOUSEKEEPING PAD DETAIL
NOT TO SCALE



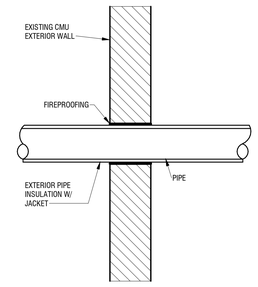
10 M501 PIPE - PIPE CLEVIS HANGER DETAIL
NOT TO SCALE



11 M501 EXTERIOR DUCTWORK DETAIL
NOT TO SCALE



12 M501 OUTDOOR UNIT MOUNTING DETAIL
NOT TO SCALE



13 M501 PIPE THROUGH EXTERIOR WALL DETAIL
NOT TO SCALE

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

MECHANICAL DETAILS

DRAWING NUMBER:

M501

11/11/2024 3:49:17 PM

VRV UNIT VENTILATORS

TAG	SERVED BY	SUPPLY FAN AIRFLOW (CFM)	SUPPLY FAN OA (CFM)	COOLING TOT. CAP. (BTU/H)	COOLING SENS. CAP. (BTU/H)	COOLING EAT DB (°F)	COOLING EAT WB (°F)	COOLING LAT DB (°F)	COOLING LAT WB (°F)	REFRIGERANT TYPE	HEATING TOT. CAP (BTU/H)	HEATING EAT DB (°F)	HEATING LAT DB (°F)	HEATING COIL ROWS	HEATING FLOW (GPM)	HEATING EWT (°F)	HEATING LWT (°F)	ELECTRICAL VOLT/HZ/PHASE	ELECTRICAL MCA (A)	ELECTRICAL MOCP (A)	UNIT SIZE L	UNIT SIZE W	UNIT SIZE H	WEIGHT (LB)	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	NOTES
UV-110	ODU-2	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	3.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	
UV-111	ODU-1	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	3.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	
UV-112	ODU-2	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	3.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	
UV-113	ODU-1	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	3.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	
UV-114	ODU-2	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	3.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	
UV-115	ODU-1	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	3.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	
UV-116	ODU-2	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	0.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	
UV-116A	ODU-2	650	190	24700	16700	80 °F	63 °F	56 °F	50 °F	R-410A	37400	47 °F	99 °F	2	2.0	160 °F	123 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9A07	
UV-116B	ODU-2	650	190	24700	16700	80 °F	63 °F	56 °F	50 °F	R-410A	37400	47 °F	99 °F	2	2.0	160 °F	123 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9A07	
UV-117	ODU-1	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	3.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	
UV-118	ODU-2	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	3.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	
UV-119	ODU-1	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	3.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	
UV-120	ODU-2	650	190	24700	16700	80 °F	63 °F	56 °F	50 °F	R-410A	37400	47 °F	99 °F	2	2.0	160 °F	123 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9A07	
UV-121	ODU-2	650	190	24700	16700	80 °F	63 °F	56 °F	50 °F	R-410A	37400	47 °F	99 °F	2	2.0	160 °F	123 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9A07	
UV-122	ODU-1	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	3.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	
UV-123	ODU-1	1250	390	36800	23800	81 °F	63 °F	54 °F	51 °F	R-410A	62300	43 °F	93 °F	2	3.0	160 °F	118 °F	208 V/60 Hz/1	4	15	86	22	30	525	DAIKIN APPLIED	UAVS9V13	

NOTES:

1. PROVIDE CONDENSATE PUMP
2. INTEGRATE INTO BACNET SYSTEM (SEE CONTROLS DRAWINGS)
3. PROVIDE BACK UP MERV 13 FILTER

DUCTED HEATING COILS

TAG	CFM	EAT / LAT	CAPACITY	EWT/LWT	FLOWRATE	FACE AREA	FACE VELOCITY (FPM)	# ROWS	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	NOTES
HC-1	4000	58F / 90F	138,240 BTUH	160 / 140	13.8 GPM	8.0 SQFT	500	1			
HC-2	4000	58F / 90F	138,240 BTUH	160 / 140	13.8 GPM	8.0 SQFT	500	1			

AIR COOLED CONDENSING UNITS (ACCU)

TAG	SERVES	LOCATION	NOMINAL TONS	COMPRESSORS	STAGES	COOLING MBH	COOLING AMBIENT DB	COOLING EER	SOUND LEVEL (dbA)	ELECTRICAL SUPPLY VOLTAGE	ELECTRICAL MCA	ELECTRICAL MOP	WEIGHT (LBS)	REFRIGERA NT TYPE	LINE SIZES (IN) SUCTION / LIQUID	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	NOTES
ACCU AHU-1	CAFETERIA	ROOF	10	1	2	115	95	11.2	84.7	208V/3PH	47.7	80	345	R-410A	1.625 / 0.625	DAIKIN	DX14XA1203A	ALL
ACCU AHU-3	CAFETERIA	ROOF	10	1	2	115	95	11.2	84.7	208V/3PH	47.7	80	345	R-410A	1.625 / 0.625	DAIKIN	DX14XA1203A	ALL

NOTES:

1. COMPRESSOR WARRANTY - 5 YEARS
2. PART WARRANTY - 1 YEAR
3. LOW AMBIENT TO 45 DEGREES
4. PROVIDE RAWAL TYPE APR VALVE
5. PROVIDE FACTORY DISCONNECT ADN WEATHERPROOF SERVICE RECEPTACLE. WIRED BY EC.

AIR HANDLING UNITS

TAG	LOCATION	SERVES	FAN TOTAL CFM	FAN OA CFM	FAN MIN OA	FAN TSP (IN WG)	FAN ESP (IN WG)	FAN MOTOR BHP	HW HEATING EAT	HW HEATING LAT	HW HEATING EWT	HW HEATING LWT	HW HEATING PD (FT)	HW HEATING GPM	HW HEATING MBH	DX COOLING EA (DB/WB)	DX COOLING LA (DB/WB)	DX COOLING SENSIBLE COOLING (MBH)	DX COOLING TOTAL COOLING (MBH)	DX COOLING AIR PD (IN WC)	DX COOLING # ROWS	DIMENSIONS (LxHxW)	WEIGHT (LBS)	ELECTRICAL V/PH	ELECTRICAL MCA	ELECTRICAL MOP	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	NOTES
AHU-1	GYM MEZZANINE	NORTH GYM	3500	1342	268	1.52	0.8	2 X 4.42	43.4	92	180	150	13.7	12.8	186	81.8 / 70.2	61.1 / 60.1	78	117	0.32	3	74x30x54	730	208/3	26	35	DAIKIN	BCHE0401	ALL
AHU-3	GYM MEZZANINE	SOUTH GYM	3500	1342	268	1.52	0.8	2 X 4.42	43.4	92	180	150	13.7	12.8	186	81.8 / 70.2	61.1 / 60.1	78	117	0.32	3	74x30x54	730	208/3	26	35	DAIKIN	BCHE0401	ALL

NOTES:

1. INDOOR UNITS LOCATED IN MECHANICAL MEZZANINE
2. PROVIDE MIXING BOX WITH MERV 13 FILTERS
3. HORIZONTAL UNIT WITH END SUPPLY, END OA, AND BOTTOM RA
4. FACTORY MOUNTED FREEZESTAT
5. 1" INJECTED FOAM CASING INSULATION
6. CERTIFICATION - AHRI 430
7. PROVIDE BACK UP MERV 13 FILTER

EXHAUST FAN SCHEDULE

TAG	SERVES	TYPE	AIRFLOW CFM	TSP IN.WG	DRIVE	DIMENSIONS	BHP	MOTOR HP	FLA	MOP	VOLTAGE/PHASE	NOISE (SONES)	CONTROL	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	NOTES
EF G-1	GYM	INLINE	2750	0.75	VARI-GREEN	26"X26"X26"	0.46	3/4	10	20	115V / 1PH	12.6	0-10vdc	GREENHECK	G-180-VG	ALL

NOTES:

1. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH
2. PROVIDE VARI-GREEN MOTOR

VRF HEAT PUMP INDOOR UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	TYPE	AIRFLOW (H/M/L)	HEATING CAPACITY (BTU/H)	TOTAL COOLING CAPACITY (BTU/H)	SENSIBLE COOLING CAPACITY (BTU/H)	DIMENSIONS (H X W X D)	WEIGHT (LBS)	VOLTAGE/PHASE	MCA	MOP	NOTES
IDU-3.01	DAIKIN	FTX12NMVJU	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	1,2
IDU-3.02	DAIKIN	FTX12NMVJU	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	1,2
IDU-3.03	DAIKIN	FTX12NMVJU	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	1,2
IDU-4.01-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	353/300/247	13,500	12,000	7,800	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	1,2,3
IDU-4.02-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	353/300/247	13,500	12,000	7,800	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	1,2,3
IDU-4.03-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	353/300/247	13,500	12,000	7,800	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	1,2,3
IDU-4.04-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	353/300/247	13,500	12,000	7,800	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	1,2,3

NOTES:

1. PROVIDE CONDENSATE PUMP FOR EACH WALL MOUNTED UNIT
2. INTEGRATE INTO BACNET BMS SYSTEM (SEE CONTROLS DRAWINGS)
3. PROPOSED AS AN ADD/ALTERNATE.

AIR-COOLED VRV HEAT PUMP CONDENSING UNIT

TAG	MANUFACTURER	MODEL NUMBER	NOMINAL HEATING CAPACITY (BTU/H)	NOMINAL COOLING CAPACITY (BTU/H)	REFRIGERANT TYPE	REFRIGERANT FACTORY CHARGE (LBS)	COMPRESSOR TYPE	COMPRESSOR QTY	DIMENSIONS (H X W X D)	WEIGHT (LBS)	ELECTRICAL VOLTAGE/PHASE	ELECTRICAL RLA	ELECTRICAL MCA	ELECTRICAL MOP	NOTES
ODU-1	DAIKIN	RXYQ240AATJA	132761	222748	R-410A	52	SCROLL	1	65-3/8" X 68-7/8" X 30-1/8" + 19"W HOOD EA. SIDE	904	208V/3PH	48.7	73.7	80	1,2
ODU-2	DAIKIN	RXYQ288AATJA	203726	276153	R-410A	52	SCROLL	2	65-3/8" X 48-13/16" X 30-1/8" (X2) + 19"W HOOD EA. SIDE	1500	208V/3PH	25.8	47.8	50	1,2
ODU-2A	DAIKIN	RXYQ144AATJA	203726	276153	R-410A	52	SCROLL	2	97.6" X 65.4" X 30.1"	1500	208V/3PH	25.8	47.8	50	1,2
ODU-3.01	DAIKIN	RXL120MVJU9	13,400	10,600	R-410A	2.09	SWING	1	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	1,2
ODU-3.02	DAIKIN	RXL120MVJU9	13,400	10,600	R-410A	2.09	SWING	1	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	1,2
ODU-3.03	DAIKIN	RXL120MVJU9	13,400	10,600	R-410A	2.09	SWING	1	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	1,2
ODU-4-ALT	DAIKIN	RXTQ36TBVJU	34380	45296	R-410A	6.4	SWING	1	39" X 37" X 12-5/8"	172	208V/1PH	15.3	16.5	20	1,2,3

NOTES:

1. PROVIDE FACTORY DISCONNECT AND WEATHERPROOF SERVICE RECEPTACLE. WIRED BY EC.
2. SEE DETAIL FOR MOUNTING INFORMATION
3. PROPOSED AS AN ADD/ALTERNATE.

PACKAGED COOLING ROOFTOP UNIT WITH ENERGY RECOVERY WHEEL

TAG	LOCATION	TOTAL CFM	OA CFM	ESP	EER/IEER	DX COOLING TOTAL CAPACITY	DX COOLING SENSIBLE CAPACITY	DX COOLING REFIGERANT	DX COOLING EAT DB/WB	DX COOLING LAT DB/WB	HOT GAS REHEAT CAPACITY	HOT GAS REHEAT LAT DB/WB	ENERGY RECOVERY WHEEL SUMMER LAT DB/WB	SUMMER OA DB/WB EAT	SUMMER RA DB/WB EAT	SUMMER MIZED AR DB/WB LAT	SUMMER REMOVED CAPACITY	SUMMER EFFECTIVENESS TOTAL	SUMMER EFFECTIVENESS SENSIBLE	WINTER OA DB/WB EAT	WINTER RA DB/WB EAT	WINTER MIXED AIR DB/WB LAT	WINTER REMOVED CAPACITY	WINTER EFFECTIVENESS TOTAL	WINTER EFFECTIVENESS SENSIBLE	DIMENSIONS (LxHxW)	WEIGHT (LBS)	ELECTRICAL V/PH	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOP	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	NOTES
RTU-1	CAFETERIA	4000	2000	1.0"	12.0/21.7	120,348 BTUH	90,911 BTUH	R32	78.5 F/65.2 F	56.7 F / 56.6 F	57,680 BTUH	70 F / 61.1 F	56.7F / 56.6F	95F / 75F	75F / 62F	78.5F / 68.2F	52, 664 BTUH	56.12 MBH	65.25 MBH	0F / 0F	75F / 50F	58.8F / 43.9F	117,304 BTUH	0.78%	0.08%	121.6 X 73.4 X 85.9	2299	208V/3PH	64.9	75.4	110	DAIKIN	DPSC07B	
RTU-2	CAFETERIA	4000	2000	1.0"	12.0/21.7	120,348 BTUH	90,911 BTUH	R32	78.5 F/65.2 F	56.7 F / 56.6 F	57,680 BTUH	70 F / 61.1 F	56.7F / 56.6F	95F / 75F	75F / 62F	78.5F / 68.2F	52, 664 BTUH	56.12 MBH	65.25 MBH	0F / 0F	75F / 50F	58.8F / 43.9F	117,304 BTUH	0.78%	0.08%	121.6 X 73.4 X 85.9	2299	208V/3PH	64.9	75.4	110	DAIKIN	DPSC07B	

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL
300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: MECHANICAL SCHEDULES

DRAWING NUMBER: M601

11/11/2024 3:46:18 PM

HALLWAY SPLIT SYSTEM - POINTS LIST

POINT #	POINT DESCRIPTION	READ POINTS	READ/WRITE POINTS	SOFTWARE POINTS SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		X				
2	OCCUPIED HEATING SETPOINT		X				
3	UNOCCUPIED HEATING SETPOINT		X				
4	OCCUPIED COOLING SETPOINT		X				
5	UNOCCUPIED COOLING SETPOINT		X				
6	GENERAL ALARM		X		X		
7	SPACE TEMPERATURE	X			X	X	

OFFICE SPLIT SYSTEM - POINTS LIST

POINT #	POINT DESCRIPTION	READ POINTS	READ/WRITE POINTS	SOFTWARE POINTS SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		X				
2	OCCUPIED MODE		X	X			
3	UNOCCUPIED MODE		X	X			
4	GENERAL ALARM		X		X		
5	SPACE TEMPERATURES	X			X	X	PROVIDE USER ADJUSTABLE THERMOSTATS IN EACH SPACE

NOTES:
1. CONTRACTOR TO PROGRAM DEFAULT HEATING AND COOLING SETPOINTS
2. CONTRACTOR TO PROGRAM SETPOINT ADJUSTMENT RANGE +/- 2 DEG. F
3. SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER

ACCUS - POINTS LIST

POINT #	POINT DESCRIPTION	READ POINTS	READ/WRITE POINTS	SOFTWARE POINTS SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		X				
2	COMPRESSOR STATUS	X			X		
3	MODEL SELECT (HEATING/COOLING)		X			X	
4	GENERAL ALARM				X		
5	COMPRESSOR START/STOP (2)		X			X	

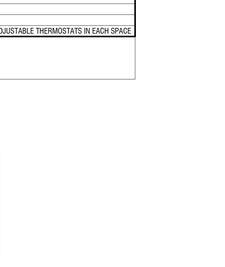
NOTES:
1. CONTRACTOR TO PROGRAM DEFAULT HEATING AND COOLING SETPOINTS
2. CONTRACTOR TO PROGRAM SETPOINT ADJUSTMENT RANGE +/- 2 DEG. F
3. SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER

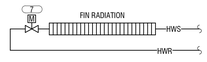
VRF UNIT VENTILATOR - POINTS LIST

ABBREVIATION KEY:
AI = ANALOG INPUT, AO = ANALOG OUTPUT, DI = DIGITAL INPUT, DO = DIGITAL OUTPUT, AV = ANALO...
DV = DIGITAL VALUE

NOTES:

POINT #	POINT DESCRIPTION	HARDWARE POINTS AI	AO	DI	DO	AV	DV	SOFTWARE POINTS SCHED	ALARM	TREND	NOTES
1	FAN MOTOR START/STOP				X						
2	FAN MOTOR STATUS			X						X	
3	FAN MOTOR ALARM			X					X		
4	OA/RA DAMPER		X			X					
5	SUPPLY TEMPERATURE	X							X		
6	SPACE TEMPERATURE	X							X	X	
7	FIN TUBE CONTROL VALVE		X							X	
7	EF DAMPER				X				X		
8	FAN SPEED		X								
9	HEATING COIL CONTROL VALVE		X							X	
10	FACE/BYPASS DAMPER		X							X	
11	MODE TO VRV SYSTEM						X			X	
12	VRV ODU TEMP. SENSOR (EACH CLASSROOM)	X							X	X	





NOTE: FIN RADIATION CONTROL IS NOT PRESENT IN ALL SPACES.

OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 70°F (ADJ.) HEATING SETPOINT, 74°F COOLING SETPOINT.

UNOCCUPIED MODE: (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A 60°F (ADJ.) HEATING SETPOINT, 80°F COOLING SETPOINT.

SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE SPACE TEMPERATURE HEATING SETPOINT AT THE SPACE SENSOR.

F/B DAMPER AND HEATING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE SPACE TEMPERATURE. WHENEVER THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, MODULATE THE FACE AND BYPASS DAMPER TO MAINTAIN SETPOINT. THE HOT WATER COIL VALVE SHALL BE OPEN.
HEATING SHALL BE ENABLED WHENEVER:
-OUTSIDE AIR TEMPERATURE IS LESS THAN 50°F (ADJ.) AND
-THE SPACE TEMPERATURE IS BELOW HEATING SETPOINT.

ECONOMIZER MODE WHEN OUTSIDE AIR IS ABOVE 60ºF (ADJ.):

WHENEVER THE F/B DAMPER IS IN FULL BYPASS POSITION AND THE SPACE TEMPERATURE RISES ABOVE SPACE SETPOINT, THE HOT WATER COIL SHALL CLOSE. UPON FURTHER RISE IN TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL OPEN TO 100% TO ALLOW FOR ECONOMIZER COOLING.

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

OUTSIDE AIR DAMPER:
THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM OUTSIDE AIR POSITION WHENEVER:
-THE UNIT IS IN OCCUPIED MODE AND
-THE FAN IS ON.

EXISTING BUILDING CONTROLS: WHEN OA DAMPERS OPEN, EXG. RELIEF AIR DAMPERS SHALL OPEN AND RELIEF AIR EXHAUST FANS SHALL RUN.

FAN:
DURING OCCUPIED MODE THE SUPPLY FAN WILL RUN AT A CONSTANT, MANUALLY DESIGNATED SPEED (LOW/MED/HIGH).
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).
- HIGH SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS GREATER THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.
- LOW SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

FIN RADIATION HEATING VALVE (IF EXISTING IN PLACE):
WHERE EXISTING, THE FIN RADIATION SHALL:
-PROVIDE THE SECOND STAGE OF HEATING.
-PROVIDE UNOCCUPIED MODE HEATING.
-BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 60 DEG F (ADJ.)

EXISTING CLASSROOM RELIEF SYSTEM:
EXISTING RELIEF SYSTEM SHALL OPERATE DURING OCCUPIED MODES AND BE OFF DURING UNOCCUPIED MODE.

3 M701 VRV UNIT VENTILATOR CONTROLS SCHEMATIC
NOT TO SCALE

ROOF TOP UNIT CONTROLS - POINTS LIST

Point #	Point Description	HARDWARE POINTS AI	AO	DI	DO	AV	DV	SOFTWARE POINTS SCHED	ALARM	TREND	GRAPHIC	NOTES
1	OUTSIDE AIR DAMPER		X								X	
2	OUTDOOR AIR FILTER CHANGE							X			X	
3	OUTDOOR AIR FILTER DIFFERENTIAL PRESSURE			X						X	X	
4	OUTSIDE AIR TEMPERATURE	X								X	X	
5	OUTSIDE AIR HUMIDITY	X								X	X	
6	FREEZESTAT - ELECTRIC MULTIPLE CONTACT			X				X			X	
7	MIXED AIR TEMPERATURE	X								X	X	
8	SUPPLY FAN START/STOP				X							
9	SUPPLY FAN STATUS (CURRENT SENSING SWITCH)			X						X		
10	SUPPLY FAN SPEED			X						X		
11	HOT WATER VALVE	X								X		
12	RETURN AIR DAMPER		X								X	
13	EXHAUST FAN START/STOP				X					X		
14	EXHAUST FAN STATUS (CURRENT SENSING SWITCH)			X								
15	EXHAUST FAN SPEED			X								
16	EXHAUST AIR DAMPER				X						X	
17	DISCHARGE AIR TEMP	X								X	X	
18	SPACE TEMPERATURE SENSOR	X								X		
19	SPACE HUMIDITY SENSOR	X								X		
20	CO2 SENSOR	X								X		
21	CO2 SENSOR	X								X		

SAFETIES

ALARMS SHALL BE PROVIDED AS FOLLOWS:

AN ALARM SHALL BE GENERATED BY EACH OF THE ALARMS SHOWN ON THE POINTS LIST.
- IF ANY DIGITAL STATUS POINT DISAGREES WITH THE COMMAND FOR MORE THAN 5 MINUTES AN ALARM SHALL BE GENERATED
- IF ANY TEMPERATURE SETPOINT IS MORE THAN 4 DEGREES FROM THE SETPOINT FOR MORE THEN 10 MINUTES, AN ALARM SHALL BE GENERATED
- FILTER CHANGE NOTIFICATION: FILTER DIFFERENTIAL PRESSURE EXCEEDS SETPOINT (ADJ.).
- FAN SHUTDOWN UPON DUCT SMOKE DETECTOR ACTIVATION

FAN OPERATION

OCCUPIED MODE
THE SUPPLY FAN SHALL BE RUN CONTINUOUSLY UNLESS SHUTDOWN BY SAFETIES. THE SUPPLY AIR FANS SPEED SHALL BE OPTIMIZED IN THE FIELD DURING SYSTEM BALANCING TO DELIVER THE SCHEDULED SUPPLY AIRFLOW.

THE OA AND RA DAMPERS SHALL BE POSITIONED TO DELIVER THE APPROPRIATE AMOUNT OF OUTSIDE AIR AS DESCRIBED BELOW.

THE EXHAUST FAN SHALL RUN CONTINUOUSLY. THE SPEED SHALL BE MODULATED ACCORDING TO THE OUTSIDE AIR DAMPER POSITION. THE MODULATION SCHEDULE SHALL BE SET BY THE AIR BALANCER.

UNOCCUPIED MODE

GIDNEY SEQUENCE

- THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. EXISTING FINNED TUBE RADIATION SHALL MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE.

HILLS SEQUENCE-

THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. IF THE SETPONT TEMPERATURE DROPS TWO DEGREES BELOW THE UNOCCUPIED SETPOINT, THE SUPPLY FAN SHALL START AND THE HEATING COIL SHALL OPEN TO 50% POSITION UNTIL THE SPACE TEMPERATURE IS 2 DEGREES ABOVE THE SETPOINT. THE FANS SHALL STOP AND THE HEATING VALVE SHALL CLOSE.

SETPOINTS

OCCUPIED HEATING – 70ºF
OCCUPIED COOLING - 73ºF

UNOCCUPIED HEATING – 63ºF
UNOCCUPIED COOLING - 85ºF

FREEZE PROTECTION

THE FREEZE STAT SETPOINT SHALL BE 40 DEGF. IF THE FREEZE STAT TRIPS, THE FANS SHALL STOP, THE DAMPERS SHALL MODULATE TO FULL RETURN POSITION AND THE HEATING COIL VALVE SHALL OPEN 50%. AN ALARM SHALL BE SENT.

HEATING MODE

THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN THE HEATING SETPOINT TEMPERATURE

ECONOMIZER MODE

IF THE OUTDOOR ENTHALY IS LESS THAN THE INDOOR INTHALPY AND THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT, ECONOMIZER COOLING SHALL BE ENABLED. THE MIXED AIR DAMPERS SHALL USE OUTSIDE AIR TO MAINTAIN THE COOLING SETPOINT. THE EXHAUST FAN SHALL MODULATE IN SYNC WITH THE OUTSIDE AIR DAMPER POSITION TO MAINTAIN SPACE PRESSURE BALANCE.

COOLING MODE

THE MIXED DAMPERS SHALL BE AT THE MINIMUM OCCUPIED POSITION OR THE POSITION DICTATED BY THE DCV CONTROL, WHICHEVER IS GREATER. THE ACCU SHALL START AND MODULATE TO MAINTAIN THE SPACE TEMPERATURE. THE MINIMUM SUPPLY AIR TEMPERATURE SHALL BE 50ºF.

DCV CONTROL

OCCUPIED MODE

THE MIXED AIR DAMPERS SHALL MODULATE TO MAINTAIN A CO2 SETPOINT OF 800 PPM (ADJ). THE MIXED AIR DAMPERS SHALL BEGIN TO MODULATE OPEN WHEN THE INDOOR CO2 LEVEL IS 100 PPM OVER THE OUTDOOR CO2 LEVEL.

THE MINIMUM POSITION OF THE OA DAMPER SHALL BE SET BY THE AIR BALANCER TO MAINTAIN THE MINIMUM AIR FLOW SHOWN ON THE SCHEDULE.

PURGE MODE

PRE-OCCUPANCY – THERE SHALL BE A 30 MINUTE PRE-OCCUPANCY PURGE WITH THE OUTSIDE DAMPERS SET TO THE MAXIMUM AIR FLOW POSITION SHOWN ON THE SCHEDULE AS SET BY THE AIR BALANCER.

POST-OCCUPANCY FLUSH - THE POST-OCCUPANCY FLUSH SHALL OPERATE UNTIL CO2 LEVELS ARE REDUCED TO 450 PPM. DURING POST-OCCUPANCY FLUSH THE DAMPERS SHALL BE IN THE MINIMUM VENTILATION POSITION AS SHOWN ON THE AHU SCHEDULE.

SENSOR FAILURE

IF A CO2 SENSOR FAILS, THE MIXED AIR DAMPERS SHALL OPEN TO THE MAXIMUM POSITION.

COMMISSIONING AND RECORD KEEPING REQUIREMENTS

THE CO2 SENSOR CALIBRATION SHALL BE CHECKED ONE YEAR AFTER INITIAL COMMISSIONING IS COMPLETED.
CO2 CONCENTRATION READINGS SHALL BE LOGGED BY THE BMS ON A 15-MINUTE INTERVAL. RECORDS MUST BE KEPT FOR A MINIMUM OR THREE YEARS.

2 M701 ROOF TOP UNIT CONTROLS
1/8" = 1'-0"

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

NOT FOR CONSTRUCTION

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
1	8/30/2024	SED ADDENDUM 2
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

MECHANICAL CONTROLS

DRAWING NUMBER:

M701

11/11/2024 3:49:19 PM

ELECTRICAL LEGEND

ELECTRICAL GENERAL NOTES

1. FOR EXACT LOCATIONS AND SURFACE FINISH CONDITIONS OF CEILINGS, WALLS, OR FLOORS, REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO HAZARDOUS MATERIALS DRAWINGS FOR LOCATIONS OF HAZARDOUS OR POSSIBLE HAZARDOUS MATERIALS BEFORE PERFORMING ANY WORK ON EXISTING STRUCTURES.
3. FOR EXACT LOCATION OF FACILITY EXPANSION JOINTS, FIRE RATED WALLS, AND SMOKE WALLS, REFER TO ARCHITECTURAL DRAWINGS.
4. FOR EXACT LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES, AND TAMPER SWITCHES REFER TO HVAC / FP DRAWINGS.
5. VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO ROUGH-IN.
6. COORDINATE LOCATIONS OF ALL RECEPTACLES AND LUMINAIRES IN MECHANICAL SPACES WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN TO AVOID CONFLICTS WITH EQUIPMENT AND DUCTWORK.
7. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS NOTED OTHERWISE, EXCEPT FOR PENDANT LIGHTING WHICH ARE TO THE BOTTOM OF THE LUMINAIRE. FOR AREAS WITH DIFFERENT FLOOR LEVELS, HEIGHT IS BASED UPON CLOSEST FLOOR OR LANDING TO DEVICE, EQUIPMENT, OR LUMINAIRE. ELEVATIONS GIVEN ON LEGEND SHEET ARE UNLESS NOTED OTHERWISE ON DRAWINGS.
8. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
9. MINIMUM BRANCH CIRCUIT WIRE SIZE SHALL BE #12 AWG **[EXCEPT LIFE SAFETY/EMERGENCY BRANCH CIRCUIT WIRING WHICH SHALL BE MINIMUM #10 AWG]**. SIZE BRANCH CIRCUIT CONDUCTORS AS PER NEC AND AS SCHEDULED ON THIS DRAWING BASED ON ACTUAL CIRCUIT DISTANCE. INCLUDE GROUND CONDUCTOR DERATINGS.
10. PULL A SEPARATE NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS REQUIRING A NEUTRAL CONNECTION. DERATE CONDUCTORS PER NEC ACCORDINGLY. MULTIWIRE BRANCH CIRCUITS ARE NOT ACCEPTABLE.
11. PROVIDE GROUNDING PER NEC & TIA 607B. PROVIDE GREEN GROUND CONDUCTOR IN ALL BRANCH AND FEEDER CIRCUITS.
12. DO NOT INSTALL ANY NEW WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS, SWITCHBOARDS, SWITCHGEAR, OR TRANSFORMERS.
13. CIRCUIT NUMBERS SHOWN FOR EQUIPMENT TO BE CONNECTED TO EXISTING PANELBOARD(S) IS SHOWN FOR DESIGN INTENT ONLY AND MAY NOT CORRESPOND TO ACTUAL CIRCUIT BREAKER MOUNTING POSITION IN THE PANEL. UPDATE THE RECORD DRAWINGS & PANELBOARD DIRECTORY WITH THE ACTUAL CIRCUIT NUMBERS USED TO CORRESPOND TO THE PANEL DIRECTORY.
14. CONFIRM ALL LABELS AND ROOM NUMBERS WITH OWNER PRIOR TO FINALIZING LABELING AND PROGRAMMING.
15. COORDINATE FINAL OUTLET LOCATION WITH ALL TRADES AND FURNITURE/MILLWORK PLACEMENT PRIOR TO ROUGH-IN. GENERAL CONTRACTOR SHALL PROVIDE ALL DRILLING AND GROMMETING IN FURNITURE/CASEWORK FOR CORD ACCESS IF REQUIRED.
16. REFER TO SHEET **E50X** FOR DETAILS SHOWING PLACEMENT OF DEVICES INSTALLED AT DOORWAYS.
17. INSTALL DATA OUTLETS 6" ADJACENT TO ASSOCIATED ELECTRICAL OUTLET.
18. SWITCHES SHOWN SIDE BY SIDE OR GANGED SHALL BE INSTALLED UNDER A COMMON COVERPLATE, UNLESS NOTED OTHERWISE.
19. PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, CEILINGS, & ROOFS AS CALLED OUT ON ARCHITECTURAL PLANS. PROVIDE ACOUSTICAL SEALANT AT PENETRATIONS THROUGH ALL NON-FIRE RATED WALLS, FLOORS, & CEILINGS.
20. PROVIDE CONDUIT EXPANSION JOINTS AT ALL EXPANSION JOINTS AS CALLED OUT ON ARCHITECTURAL PLANS.

    SITE PLAN CONDUIT ROUTING SHOWN FOR INTENT. REFERENCE CIVIL DRAWINGS FOR UNDERGROUND COORDINATION AND DISTANCE OF RUNS. COORDINATE WITH ALL TRADES.
21. FINAL QUANTITY AND LOCATION OF WIRELESS DATA OUTLETS IDENTIFIED ON THE FLOOR PLANS SHALL BE VERIFIED WITH THE WIRELESS
22. ACCESS POINT MANUFACTURER BASED ON THE MODEL NUMBER UTILIZED PRIOR TO INSTALLATION/ROUGH-IN.

ELECTRICAL DEMOLITION GENERAL NOTES

1. REMOVE ALL ELECTRICAL EQUIPMENT ON OR IN EXISTING WALLS, CEILINGS AND PARTITIONS WHICH ARE TO BE DEMOLISHED. WHERE EQUIPMENT IS SCHEDULED TO BE REMOVED, ABANDON CONCEALED RACEWAY AND REMOVE CONDUCTORS BACK TO SOURCE OR LAST SCHEDULED DEVICE TO REMAIN. REMOVE EXPOSED RACEWAY AND CONDUCTORS BACK TO POWER SOURCE OR LAST DEVICE SCHEDULED TO REMAIN IN ALL OTHER AREAS.
2. WHERE EXISTING WALLS ARE TO REMAIN, REMOVE ALL EXPOSED RACEWAYS, SURFACE AND RECESSED OUTLET BOXES, ETC. WHICH ARE NOT TO BE REUSED. WHERE NEW CONDUITS AND OUTLETS ARE TO BE ADDED TO EXISTING WALLS IN FINISHED ROOMS, THEY SHALL BE CONCEALED BY CUTTING AND PATCHING THE WALLS UNLESS OTHERWISE NOTED.
3. UTILIZE EXISTING OUTLET BOXES AND RACEWAY SYSTEMS WHEREVER PRACTICAL IN RENOVATION AREAS. WHERE SUCH EXISTING OUTLET BOXES ARE USED, INSTALL NEW WIRING DEVICES, COVERPLATES, AND WIRING. PROVIDE SPECIAL COVERPLATES TO SUIT FIELD CONDITIONS.
4. REARRANGE EXISTING CONDUITS AND WIRING TO ACCOMMODATE NEW CIRCUIT ARRANGEMENTS INDICATED AND TO MAINTAIN CONTINUITY OF EXISTING CIRCUITS FEEDING DEVICES THAT ARE TO REMAIN.
5. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REINSTALL EXISTING ELECTRICAL EQUIPMENT TO ACCOMMODATE THE WORK OF OR DISTURBED BY ALL TRADES.
6. STORE REMOVED ELECTRICAL EQUIPMENT SUCH AS LUMINAIRES, POWER AND COMMUNICATION DEVICES, DISTRIBUTION EQUIPMENT, CONTROLLERS, ETC. ON JOB SITE FOR REUSE UNTIL SUBSTANTIAL COMPLETION OR PROJECT CLOSEOUT. PROVIDE OWNER RIGHT OF FIRST REFUSAL OF ELECTRICAL EQUIPMENT OTHERWISE REMOVE THOSE FROM SITE AT CONTRACTORS EXPENSE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS THAT THE OWNER DOES NOT WISH TO SALVAGE.
7. EXISTING DEVICE LOCATIONS WERE IDENTIFIED AS COMPLETELY AS POSSIBLE BY A SITE SURVEY AND BY RECORD DOCUMENTS AS AVAILABLE. BE RESPONSIBLE FOR PROPER DEMOLITION AND REWORK OF DEVICES NOT SHOWN ON DRAWINGS BUT NECESSARY FOR PROJECT RENOVATIONS TO CONFORM WITH INTENT OF DOCUMENTS. VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL DEMOLITION WORK REQUIRED TO COMPLETE THE NEW CONSTRUCTION. CONTRACTOR SHALL PROVIDE IN BASE BID A NOMINAL AMOUNT OF UNKNOWN BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING BEING REMOVED OR RELOCATED FOR NEW WORK.
8. WHERE DEMOLITION OF DEVICE OR EQUIPMENT AND REMOVAL OF CONDUIT OR OTHER ACCESSORY LEAVES OPENINGS IN THE FLOORS, WALLS, OR CEILINGS, SAME SHALL BE PATCHED AND PAINTED TO MATCH EXISTING ADJACENT FINISH. ALL OPENINGS IN FLOORS SHALL BE PINNED WITH REBAR.
9. REFER TO DEMOLITION DRAWINGS & NOTES OF ALL CONTRACTS OR TRADES FOR COORDINATION.
10. IN AREAS OF DEMOLITION WHERE THE REMOVAL OF ELECTRICAL EQUIPMENT INTERFERES WITH THE NORMAL BUILDING OPERATIONS AND SYSTEMS, CONSULT WITH THE OWNER PRIOR TO PERFORMING ANY DEMOLITION.
11. WHERE UNFORESEEN CONDITIONS CONFLICT WITH CONTRACT DOCUMENTS, SUBMIT AN RFI PRIOR TO PROCEEDING WITH ANY WORK.
12. WHERE DEVICES ARE SCHEDULED FOR RELOCATION, DISCONNECT AND REMOVE EXISTING DEVICE AND REMOVE ASSOCIATED WIRING. RELOCATE DEVICE AS SHOWN, EXTEND WIRING AS REQUIRED, AND MATCH EXISTING.
13. WHERE REMOVALS AFFECT EXISTING CIRCUITS SCHEDULED TO REMAIN, MAINTAIN CONTINUITY OF POWER TO THESE CIRCUITS AND EXTEND WIRING AS NEEDED.
14. WHERE ANY EMPTY BACKBOXES OR EMPTY JUNCTION BOXES REMAIN DUE TO ELECTRICAL DEMOLITION, PROVIDE COVERPLATE(S) OVER EXISTING BOX(ES).
15. WHERE EQUIPMENT CONNECTIONS ARE SHOWN, REMOVE ELECTRICAL CONNECTION, CONDUIT AND WIRE BACK TO POWER SOURCE. DISCONNECT AND REMOVE ASSOCIATED CONTROLLER SERVING EQUIPMENT AND ASSOCIATED CONTROL WIRING.
16. DISCONNECT AND REMOVE EXISTING ELECTRIC WORK NOT NECESSARY FOR EXISTING OR NEW INSTALLATION, BUT INTERFERING WITH NEW CONSTRUCTION.
17. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ANY AND ALL EXISTING ELECTRIC WORK REQUIRED TO REMAIN, BUT INTERFERING WITH NEW CONSTRUCTION.
18. WHERE DEMOLITION NOTES SCHEDULE EXISTING WIRING DEVICES, LIGHTING FIXTURES, SYSTEMS DEVICES, EQUIPMENT CONNECTIONS, ETC. TO BE "DISCONNECTED AND REMOVED IN THE ENTIRETY", THE CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING LIGHTING FIXTURE, WIRING DEVICES, COVERPLATES, BRANCH CIRCUIT WIRING, CONDUIT OR RACEWAY, OUTLET AND/OR SPLICE BOX(ES) ETC. BACK TO EITHER LAST DEVICE SCHEDULED TO REMAIN, OR BACK TO POWER SOURCE.
19. PROPERLY DISPOSE OF ALL PCB CONTAINING FLUORESCENT BALLASTS MANUFACTURED PRIOR TO 1980 ACCORDING TO STATE AND FEDERAL REGULATIONS.
20. IF ADDITIONAL SUSPECT ASBESTOS-CONTAINING MATERIALS ARE DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER AND ARCHITECT TO WITH REGARD TO CONDUCTING ADDITIONAL BULK SAMPLING AND ABATEMENT AT THE OWNER'S EXPENSE.

ABBREVIATIONS

°	DEGREES
Δ	DELTA
Ω	OHMS
Ø	PHASE
Y	WYE
A	AMPERE
AFCI	ARC-FAULT CIRCUIT INTERRUPTING
AF	AMPERE FUSE
AFF	ABOVE FINISHED FLOOR
AFS	AMPERE FRAME SIZE
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ALUM	ALUMINUM
AM	AMMETER
ANN	ANNUNCIATOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKBD	BACKBOARD
BLDG	BUILDING
CND	CONDUIT
CAT	CATALOG
CTV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CM	CONSTRUCTION MANAGER
CO	COMPANY/CARBON MONOXIDE
COAX	COAXIAL CABLE
CT	CURRENT TRANSFORMER
CTTS	CLOSE TRANSITION TRANSFER SWITCH
CU	COPPER
DC	DIRECT CURRENT
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DN	DOWN
DO	DRAWOUT
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DSP	DIGITAL SIGNAL PROCESSOR
DVD	DIGITAL VERSATILE DISC
DVR	DIGITAL VIDEO RECORDER
DVS	DIGITAL VIDEO SURVEILLANCE
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EGS	ENGINE-GENERATOR SET
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRIC
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE DEVICE
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EPRF	EXPLOSION PROOF
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FC	FOOTCANDLE
FLR	FLOOR
FLUOR	FLUORESCENT
FPS	FRAMES PER SECOND
FU SW	FUSED SWITCH
FTL	FEED THRU LUGS
Gb	GIGABIT
GC	GENERAL CONTRACTOR
GEC	GROUND ELECTRODE CONDUCTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
GFI	GROUND FAULT INTERRUPTING
G	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HST	HARMONIC SUPPRESSION TRANSFORMER
HSKPG	HOUSEKEEPING
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ (CYCLES/SECOND)
ICC	INTERMEDIATE CROSS CONNECT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
IP	INTERNET PROTOCOL
IPS	IMAGES PER SECOND
IR	INFRARED
J-BOX	JUNCTION BOX
kAIC	KILOAMPERE INTERRUPTING CURRENT
kAIR	KILOAMPERE INTERRUPTING RATING
KO	KNOCK OUT
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kW	KILOWATT
kWh	KILOWATT HOUR
LA	LIGHTNING ARRESTOR
LAN	LOCAL AREA NETWORK
LCD	LIQUID CRYSTAL DISPLAY
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LS	LIFE SAFETY
LTD	LONG TIME DELAY
LTG	LIGHTING
LV	LOW VOLTAGE
MAG	MAGNETIC
MAN	MANUAL
MAX	MAXIMUM
MATV	MASTER ANTENNA TELEVISION
Mb	MEGABIT
[MC	**METAL CLAD CABLE]**
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPERES
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCS	MOLDED CASE SWITCH
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANELBOARD
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MINERAL INSULATED CABLE
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MM	MULTIMODE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
NEUT	NEUTRAL
NA	NOT APPLICABLE
NCC	NORMALLY CLOSED CONTACT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NOC	NORMALLY OPEN CONTACT
[NOC	**NETWORK OPERATIONS CENTER]**
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/OWNER INSTALLED
OH	OVERHEAD
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PULLBOX
PC	PERSONAL COMPUTER
PH	PHASE
PNL	PANEL
PLC	PROGRAMMABLE LOGIC CONTROLLER
POE	POWER OVER ETHERNET
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PTZ	PAN TILT ZOOM
PVC	POLYVINYL CHLORIDE
PWR	POWER
RAID	REDUNDANT ARRAY OF INDEPENDENT DISKS
RCP	REFLECTED CEILING PLANS
RECPT	RECEPTACLE
REF	REFRIGERATOR
RF	RADIO FREQUENCY
RFID	RADIO FREQUENCY IDENTIFICATION DEVICE
RM	ROOM
RMC	RIGID METAL CONDUIT
SCHED	SCHEDULE
SDMPR	SMOKE DAMPER
SEC	SECONDARY
SF	SUPPLY FAN
SFL	SUB FEED LUGS
SM	SINGLE MODE
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SPEC	SPECIFICATION
SPKR	SPEAKER
SST	STAINLESS STEEL
STD	SHORT TIME DELAY
STP	SHIELDED TWISTED PAIR
STR	STARTER
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYMM	SYMMETRICAL
TB	TERABYTES
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TERMINAL CABINET
TERM	TERMINAL
TEL	TELEPHONE
TER	TELECOM EQUIPMENT ROOM
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
THD	TOTAL HARMONIC DISTORTION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TRANS	TRANSITION
TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
TV	TELEVISION
TYP	TYPICAL
UGND	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USS	UNIT SUBSTATION
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPERE
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VEND	VENDING MACHINE
VM	VOLTMETER
VSD	VARIABLE SPEED DRIVE
VOIP	VOICE OVER INTERNET PROTOCOL
VPI	VACUUM-PRESSURE IMPREGNATED
W	WATT
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
WR	WEATHER RESISTANT
WSA	WIRE SIZING AMPS
XFMR	TRANSFORMER

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

ELECTRICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS

DRAWING NUMBER:

E001

11/6/2024 12:37:46 PM

ELECTRICAL LEGEND

DEVICE SUBSCRIPTS

II	ROMAN NUMERAL INDICATES QUANTITY OF GANGED DEVICES UNDER COMMON FACEPLATE
+xx	HEIGHT OF DEVICE ABOVE FINISHED FLOOR (IN INCHES)
a	LOWER CASE LETTER(S) INDICATES SWITCH CONTROL ARRANGEMENT
5	NUMERAL INDICATES BRANCH CIRCUIT NUMBER (POWER & LIGHTING)/CANDELA RATING (FIRE ALARM DEVICES)
A	WITH AUXILIARY CONTACTS
AC	INSTALL ABOVE COUNTER, AT 40" AFF. COORDINATE WITH GC
B	REMOVE DEVICE AND INSTALL BLANK COVERPLATE
BF	BLANKFACE GFCI
CD	CORD DROP RECEPTACLE
CH	CLOCK HANGER RECEPTACLE
CL	INSTALL FLUSH IN CEILING
CLS	INSTALL ON SURFACE OF CEILING
C*	CONTROL POINT IDENTIFIER (* INDICATES CONTROL NUMBER)
COP	RECEPTACLE FOR COPIER , INSTALL 18" AFF
COF	RECEPTACLE FOR COFFEE , INSTALL 44" AFF
D	DIMMER SWITCH (LIGHTING CONTROL)
E	EXISTING BACKBOX TO REMAIN AND BE REUSED
EN	EXISTING BACKBOX WITH NEW DEVICE
EO	EQUIPMENT SUPPLIED BY OWNER
EQ	INSTALL IN EQUIPMENT/CASEWORK
ER	EXISTING TO BE REMOVED
ERL	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
EWC	RECEPTACLE FOR WATER COOLER. COORDINATE EXACT LOCATION WITH GC & PC PRIOR TO ROUGH-IN
EXP	EXPLOSION PROOF
FL	INSTALL FLUSH IN FLOOR
FB	INSTALL IN FLOORBOX/POKETHRU
FRA	FIRE RATED ASSEMBLY
GFCI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
GFI	GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED
GFP	FEED THROUGH GROUND FAULT CIRCUIT INTERRUPTING PROTECTED
H	INSTALL HORIZONTALLY
HA	HIGH ABUSE COVERPLATE WITH CENTER PIT REJECT SCREWS
IG	ISOLATED GROUND RECEPTACLE
K	KEY OPERATED
L	LOCATOR STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS OFF OR UNPOWERED)
LV	LOW VOLTAGE
M	INSTALL IN MULLION
M*	MONITORING POINT IDENTIFIER (* INDICATES MONITORING POINT NUMBER)
MCW	RECEPTACLE FOR MICROWAVE , INSTALL IN UPPER CABINET, COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
N	INDICATES NEW DEVICE
NIC	NOT IN CONTRACT/PROVIDE BY OTHERS
NL	NIGHT LIGHT LUMINAIRE (UNSWITCHED / INTEGRAL NIGHT LIGHT STYLE RECEPTACLE
NLG	INTEGRAL NIGHT LIGHT STYLE GFCI RECEPTACLE
O	OCCUPANCY SENSOR (AUTOMATIC 'ON' LIGHTING SENSOR SWITCH)
P	PILOT STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS ON OR POWERED)
PH	FOR PHONE, INSTALL 54" AFF
PI	POWER INDICATING RECEPTACLE
PJ	RECEPTACLE FOR PROJECTOR , INSTALL FLUSH IN CEILING
PP	BACKBOX FOR AUTODOOR PUSH PLATE
R*	RELAY DESIGNATION (* INDICATES RELAY NUMBER)
REF	RECEPTACLE FOR REFRIGERATOR , INSTALL 44" AFF
S	INSTALL ON SURFACE
SP	SURGE PROTECTOR STYLE RECEPTACLE
SR	INSTALL IN SURFACE RACEWAY
SW	SPLIT WIRED RECEPTACLE FOR REMOTE SWITCHING
T	DIGITAL ELECTRONIC INTERVAL TIMER (LIGHTING SWITCH)
TR	TAMPER RESISTANT
TS	DIGITAL ELECTRONIC PROGRAMMABLE TIME SWITCH (LIGHTING SWITCH)
TV	FOR TELEVISION/MONITOR, INSTALL 72" AFF
UC	INSTALL UNDER COUNTER. COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
USB	RECEPTACLE WITH USB CHARGING PORTS
VEND	RECEPTACLE FOR VENDING MACHINE, INSTALL 44" AFF
V	VACANCY SENSOR (MANUAL 'ON' LIGHTING SENSOR SWITCH)
W	INSTALL 44" AFF
WG	WIRE GUARD
WP	WEATHERPROOF DEVICE / WEATHERPROOF WHILE-IN-USE EXTRA DUTY COVER & WEATHER RESISTANT RECEPTACLE
WPS	WEATHERPROOF SPRING LOADED COVER (WEATHERPROOF WHEN CLOSED), WEATHER RESISTANT RECEPTACLE
WR	WEATHER RESISTANT DEVICE/WEATHER RESISTANT RECEPTACLE
Z*	DEVICE ZONE IDENTIFIER (* INDICATES ZONE NUMBER)

GENERAL LINEWORK DESCRIPTIONS & DRAWINGS NOTES

- NEW WORK
- EXISTING WORK / FUTURE PROVISIONS / NOT IN CONTRACT WORK
- WORK TO BE REMOVED (DEMO PLANS) - DEVICE AND ALL ASSOCIATED ELECTRICAL WORK SHALL BE REMOVED BACK TO THE SOURCE, UNLESS NOTED OTHERWISE / UNDERFLOOR CONDUIT (NEW PLANS)
- WIRE AND / OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
- MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWING
- CALLOUT BOUNDARY - DETAIL AND / OR SECTION REFERENCE / SCOPE OF WORK
- BRANCH CIRCUIT BOUNDARY
- # DRAWING KEYED NOTES
- # BRANCH CIRCUITING NOTES
- # DEMO NOTE / FEEDER IDENTIFICATION
- # KITCHEN / LAB EQUIPMENT TAG
- SYMBOL WITH TAIL INDICATES WALL INSTALLATION, HEIGHT AS INDICATED
- INDICATES MULTIPLE DEVICES OF DIFFERENT TYPES INSTALLED UNDER COMMON COVERPLATE AT ONE LOCATION (DEVICES SHALL BE INSTALLED UNDER A COMMON COVERPLATE)

BRANCH CIRCUIT CONDUCTOR SIZING

CIRCUIT NOTATION:

11,13 — CIRCUIT NUMBER(S)
1LNL1 — SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)

PROVIDE MINIMUM WIRE SIZE AS FOLLOWED UNLESS NOTED OTHERWISE:
20A CB - #12 AWG
30A CB - #10 AWG
40A CB - #8 AWG
50A CB - #8 AWG
INCREASE SIZE OF CONDUCTOR FOR DISTANCE AS SHOWN BELOW IN 20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE.

20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE:

CONDUCTOR SIZE (AWG)	#12	#10	#8	#6	#4
MAXIMUM BRANCH CIRCUIT LENGTH AT 120V (FEET)	90	140	225	355	565
MAXIMUM BRANCH CIRCUIT LENGTH AT 277V (FEET)	205	325	520	825	1310

NOTES:

1. INCREASE ALL BRANCH CIRCUIT CONDUCTORS AS INDICATED BASED ON LENGTH OF CIRCUIT, INCLUDING EQUIPMENT GROUNDING CONDUCTOR.
2. TRANSITION FROM LARGER CONDUCTOR SIZE TO #12 AWG FOR FINAL TERMINATION TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN 10' OF OUTLET AND EXTEND #12 AWG CONDUCTORS TO OUTLET.
3. LENGTHS ARE FROM OVERCURRENT PROTECTIVE DEVICE, ALONG CIRCUIT ROUTING, TO CENTER OF EQUIPMENT LOAD.
4. SCHEDULE ASSUMES 12A LOAD, FOR LOADS HIGHER THAN 12A, INCREASE CONDUCTOR SIZE.

RACEWAY, BOXES, & BUSWAY

- LADDER STYLE CABLE TRAY, HUNG ABOVE CEILING OR AS NOTED
- WIRE BASKET, HUNG ABOVE CEILING OR AS NOTED
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CAPPED CONDUIT
- CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY
- SERVICE WEATHERHEAD
- SINGLE CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- DUAL CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- TRIPLE CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- SURFACE RACEWAY ROUTED DOWN FROM CEILING TO HORIZONTAL
- SURFACE RACEWAY ROUTED UP FROM FLOOR TO HORIZONTAL
- SURFACE RACEWAY ENDPIECE
- SURFACE RACEWAY COUPLING
- DATA/POWER INDOOR SERVICE POLE
- MH — MANHOLE
- HH — HANDHOLE
- PP — POWER ASSIST PUSH PLATE BACKBOX- MOUNTED 44" AFF
- PP1 — POWER ASSIST PUSH PLATE BACKBOX- MULLION MOUNTED 44" AFF
- B — DEVICE BOX WITH BLANK COVERPLATE, HEIGHT AS INDICATED
- B — DEVICE BOX WITH BLANK COVERPLATE, INSTALLED IN CEILING
- J — JUNCTION BOX, HEIGHT AS INDICATED
- J — JUNCTION BOX, INSTALLED IN CEILING
- PB — PULL BOX
- SYSTEMS CABINET, SURFACE OR FLUSH AS SHOWN, TOP OF TRIM 74" AFF
- MSB# — MULTI-SERVICE BOX, REFER TO MULTI-SERVICE BOX SCHEDULE FOR DETAILED INFORMATION
- FEEDER BUSWAY HORIZONTAL RUN
- PLUG-IN BUSWAY HORIZONTAL RUN
- BUSWAY VERTICAL RUN
- CBP — BUSWAY CIRCUIT BREAKER PLUG
- BUSWAY COMBINATION DUPLEX RECEPTACLE PLUG
- BUSWAY COMBINATION NEMA RECEPTACLE PLUG
- FSP — BUSWAY FUSED SWITCH PLUG
- MSB1 — MULTISERVICE BOX, # INDICATES DESIGNATION, SEE MULTISERVICE BOX SCHEDULE

ELECTRICAL EQUIPMENT

- DISCONNECT SWITCH, TYPE PER EQUIPMENT CONNECTION SCHEDULE [UNFUSED DISCONNECT SWITCH], SURFACE MOUNTED 48" AFF
- FUSED DISCONNECT SWITCH, SURFACE MOUNTED 48" AFF
- CB — SEPARATELY ENCLOSED CIRCUIT BREAKER, SURFACE MOUNTED 44" AFF
- FUSE (ONE-LINE NOTATION)
- XXXA-3P — CIRCUIT BREAKER (ONE-LINE NOTATION)
- XXXA-3P — LOW VOLTAGE DRAWOUT POWER CIRCUIT BREAKER (ONE-LINE NOTATION)
- XXXA-3P — MEDIUM VOLTAGE DRAWOUT POWER CIRCUIT BREAKER (ONE-LINE NOTATION)
- LOW VOLTAGE INTERRUPTER SWITCH (ONE-LINE NOTATION)
- MEDIUM VOLTAGE INTERRUPTER SWITCH (ONE-LINE NOTATION)
- TRANSFER SWITCH (ONE-LINE NOTATION)
- ISOLATION BYPASS TRANSFER SWITCH (ONE-LINE NOTATION)
- CLOSED TRANSITION TRANSFER SWITCH (ONE-LINE NOTATION)
- M — FRACTIONAL HORSEPOWER MOTOR CONTROLLER, RECESSED 44" AFF OR ABOVE CEILING (MANUAL THERMAL SWITCH)
- COMBINATION MOTOR CONTROLLER/DISCONNECT, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF
- MOTOR CONTROLLER, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF
- VSD / VFD — VARIABLE SPEED DRIVE/VARIABLE FREQUENCY DRIVE
- T — TRANSFORMER (PLAN NOTATION)
- TRANSFORMER (ONE-LINE NOTATION)
- 3-PHASE, 3-WIRE DELTA CONNECTION
- 3-PHASE, 4-WIRE WYE CONNECTION
- 3-PHASE, NEUTRAL UNGROUNDED WYE CONNECTION
- G, XXXXA-3P, LSIA, LSIG — ENGINE-GENERATOR SET (ONE-LINE NOTATION)
- POTENTIAL TRANSFORMER (ONE-LINE NOTATION)
- CURRENT TRANSFORMER (ONE-LINE NOTATION)
- AM — AMMETER (ONE-LINE NOTATION)
- AM — AMMETER SWITCH (ONE-LINE NOTATION)
- VM — VOLTMETER (ONE-LINE NOTATION)
- VM — VOLTMETER SWITCH (ONE-LINE NOTATION)
- DM — DIGITAL METERING MONITOR (ONE-LINE NOTATION)
- M — METER CABINET/SOCKET (ONE-LINE & PLAN NOTATION)
- * # — PROTECTIVE RELAY (*INDICATES ANSI FUNCTION, NUMBER INDICATES QUANTITY) (ONE-LINE NOTATION)
- LIGHTING ARRESTER (ONE-LINE NOTATION)
- GC — GENERAL PURPOSE CONTACTOR, 60" AFF
- EC — ELEVATOR CONTACTOR, 60" AFF
- PHOTOVOLTAIC MODULES

ELECTRICAL DEVICES

GENERAL ELECTRICAL DEVICE NOTATION:

15 / 1LNL1 +30" PI
- SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)
- CIRCUIT #
- INSTALLATION HEIGHT TO CENTER OF DEVICE IN INCHES (IF OTHER THAN SPECIFIED ON LEGEND)
- SUBSCRIPT (IF APPLICABLE)

- NEMA 5-20R SIMPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R SIMPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R DUPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R GFCI DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, 18" AFF
- NEMA 5-20R QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R GFCI QUADPLEX (GFCI REC W/ DUPLEX ON LOAD SIDE UNDER COMMON COVERPLATE) RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) SIMPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) SIMPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) DUPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) GFCI DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) GFCI QUADPLEX (GFCI REC W/ DUPLEX ON LOAD SIDE UNDER COMMON COVERPLATE) RECEPTACLE, 18" AFF
- NEMA CONFIGURATION TO MATCH INDICATED EQUIPMENT OR AS CALLED OUT, 18" AFF
- MULTIOUTLET PLUGSTRIP, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- S/S — START/STOP PUSHBUTTONS, STAINLESS STEEL NEMA 4X BOX WITH NEMA 4X PUSHBUTTONS, 54" AFF
- SPD — SURGE PROTECTION DEVICE, TOP OF ENCLOSURE 74" AFF
- LD CP — LEAK DETECTOR AND CONDENSATE PUMP. PROVIDE DUPLEX RECEPTACLE 120V, 1PHASE LOCATED NEXT TO THE UNIT.

PANELBOARDS

PANELBOARD DESIGNATIONS:

A 1 D N H 1

- BUILDING AREA
- LEVEL
- TYPE
- BRANCH
- VOLTAGE
- SEQUENCE NUMBER
- NUMBERS IN SEQUENCE - 1,2,3, ETC.

H	480Y/277V
L	208V/120V OR 240V
N	NORMAL BRANCH
G	GENERATOR POWER
S	LIFE SAFETY BRANCH (NEC 517)
C	CRITICAL BRANCH (NEC 517)
E	EQUIPMENT BRANCH (NEC 517)
M	MIXED EXISTING BRANCH
E	EMERGENCY BRANCH (NEC 700)
S	STANDBY BRANCH (NEC 701)
O	OPTIONAL BRANCH (NEC 702)
D	DISTRIBUTION PANELBOARD
B	BRANCH CIRCUIT PANELBOARD
I	ISOLATED PANELBOARD
K	KITCHEN PANELBOARD
L	LIGHTING PANELBOARD
R	RECEPTACLE PANELBOARD
B	BASEMENT LEVEL
G	GROUND LEVEL
1	LEVEL 01
2	LEVEL 02
M	MEZZANINE LEVEL
A	AREA A *(PROJECT SPECIFIC)*
B	AREA B
C	AREA C

PANELBOARD - ONE-LINE NOTATION:

- 208/120V OR 240V SYSTEM
- 480/277V SYSTEM
- SHADING INDICATES BRANCH TYPE
- TEXT INDICATES LUG/ BREAKER TYPE (MCB, 150A-3P)
- FEEDER BREAKERS (BRANCH BREAKERS SHOWN ON EACH PANELBOARD SCHEDULE)

PANELBOARD - FLOOR PLAN NOTATION:

DOOR STYLE (DESIGNATES VOLTAGE):
- 208/120V OR 240V SYSTEM
- 480/277V SYSTEM

SIZE (DESIGNATES PANELBOARD TYPE):
- PANELBOARD
- DISTRIBUTION PANELBOARD

FILL (DESIGNATES BRANCH TYPE):
- NORMAL BRANCH PANELBOARD
- NEC 700 EMERGENCY BRANCH PANELBOARD
- NEC 701 STANDBY BRANCH PANELBOARD
- NEC 702 OPTIONAL BRANCH PANELBOARD

EQUIPMENT DESIGNATIONS

A 1 T 1

- BUILDING AREA
- LEVEL
- EQUIPMENT NAME
- SEQUENCE NUMBER
- NUMBERS IN SEQUENCE - 1,2,3, ETC.

ATSF	AUTOMATIC TRANSFER SWITCH, FIRE PUMP
ATSS	AUTOMATIC TRANSFER SWITCH, LIFE SAFETY (NEC 517)
ATSC	AUTOMATIC TRANSFER SWITCH, CRITICAL (NEC 517)
ATSE	AUTOMATIC TRANSFER SWITCH, EQUIPMENT (NEC 517)
ATSM	AUTOMATIC TRANSFER SWITCH, MIXED EXISTING
ATSE	AUTOMATIC TRANSFER SWITCH, EMERGENCY (NEC 700)
ATSS	AUTOMATIC TRANSFER SWITCH, STANDBY (NEC 701)
ATSO	AUTOMATIC TRANSFER SWITCH, OPTIONAL (NEC 702)
CB	CIRCUIT BREAKER
DS	UNFUSED DISCONNECT SWITCH
DT	DAY TANK
EC	ELEVATOR CONTACTOR
FAP	FIRE ALARM ANNUNCIATOR
FATC	FIRE ALARM TERMINAL CABINET
FDS	FUSED DISCONNECT SWITCH
GC	GENERAL PURPOSE CONTACTOR
IDRS	INTEGRATED DATA CENTER RACK SYSTEM
IEC	INTERCOM EQUIPMENT CABINET
IPC	INTEGRATED POWER CENTER
LC	LIGHTING CONTACTOR
LCC	LIGHTING CONTROL CABINET
LRC	LIGHTING RELAY CABINET
LVS	LOW VOLTAGE POWER SWITCHGEAR
MCCE	MOTOR CONTROL CENTER, EQUIPMENT (NEC 517)
MCCN	MOTOR CONTROL CENTER, NORMAL
MCCO	MOTOR CONTROL CENTER, OPTIONAL (NEC 702)
MCCS	MOTOR CONTROL CENTER, STANDBY (NEC 701)
MMC	MODULAR METER CENTER
MS	METER SOCKET
MTSS	MANUAL TRANSFER SWITCH, STANDBY (NEC 701)
MTSO	MANUAL TRANSFER SWITCH, OPTIONAL (NEC 702)
MVR	MEDIUM VOLTAGE REGULATOR
MVS	MEDIUM VOLTAGE SWITCHGEAR
PBL	PLUG-IN BUSWAY LIGHTING
PBP	PLUG-IN BUSWAY POWER
PSS	PRIMARY SUBSTATION
PSWGR	PARALLELING SWITCHGEAR
RUPS	ROTARY HYBRID UNINTERRUPTIBLE POWER SUPPLY
SPD	SURGE PROTECTIVE DEVICE
SWBDN	SWITCHBOARD, NORMAL
SWBDS	SWITCHBOARD, LIFE SAFETY (NEC 517)
SWBDC	SWITCHBOARD, CRITICAL (NEC 517)
SWBDE	SWITCHBOARD, EQUIPMENT (NEC 517)
SWBDE	SWITCHBOARD, EMERGENCY (NEC 700)
SWBDS	SWITCHBOARD, STANDBY (NEC 701)
SWBDO	SWITCHBOARD, OPTIONAL (NEC 702)
SWGR	SWITCHGEAR
T	TRANSFORMER
TBTP	TELECOMMUNICATION BACKBONE TERMINATION PANEL
TDTP	TELECOMMUNICATION DEVICE TERMINATION PANEL
TMGR	TELECOMMUNICATION MAIN GROUND BUS
TMGB	TELECOMMUNICATION ROOM GROUND BUS
TC	TIME CLOCK
UPS	UNINTERRUPTIBLE POWER SUPPLY
USSHV	UNIT SUBSTATION AT 480Y/277 SECONDARY VOLTAGE
USSLV	UNIT SUBSTATION AT 208Y/120 SECONDARY VOLTAGE
B	BASEMENT LEVEL
G	GROUND LEVEL
1	LEVEL 01
2	LEVEL 02
M	MEZZANINE LEVEL
A	AREA A *(PROJECT SPECIFIC)*
B	AREA B
C	AREA C

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING LICENSE NO. C-0430
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

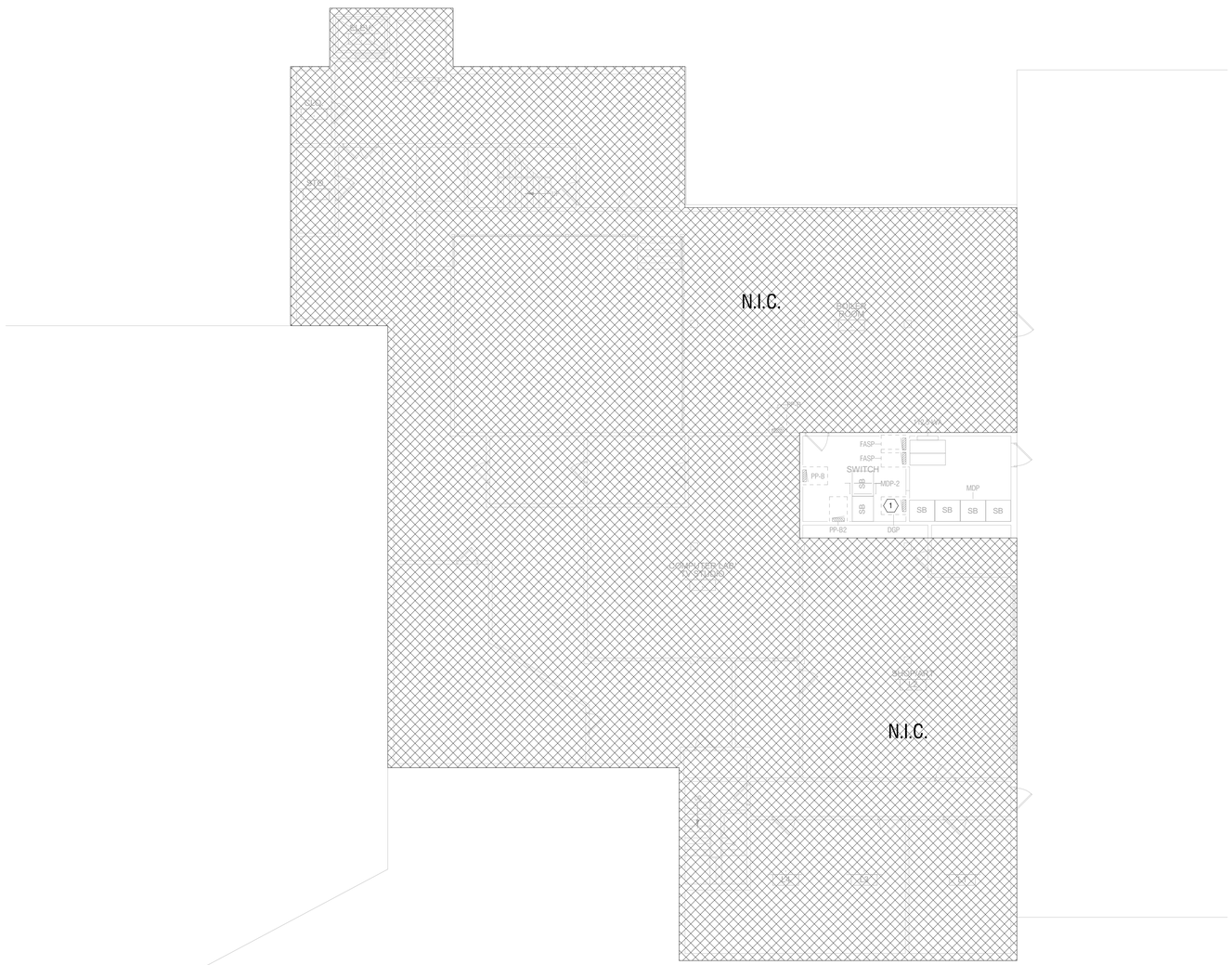
GIDNEY AVENUE ELEMENTARY SCHOOL
300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024

DRAWING NAME:
ELECTRICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS

DRAWING NUMBER:



1 E100 BASEMENT ELECTRICAL PLAN
1/8" = 1'-0"

KEY NOTES:

1 PROVIDE TEMPORARY POWER TO BUILDING FIRE ALARM CONTROL PANEL DURING CONSTRUCTION. COORDIANTE EXACT LOCATION(S) WITH OWNNER.

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

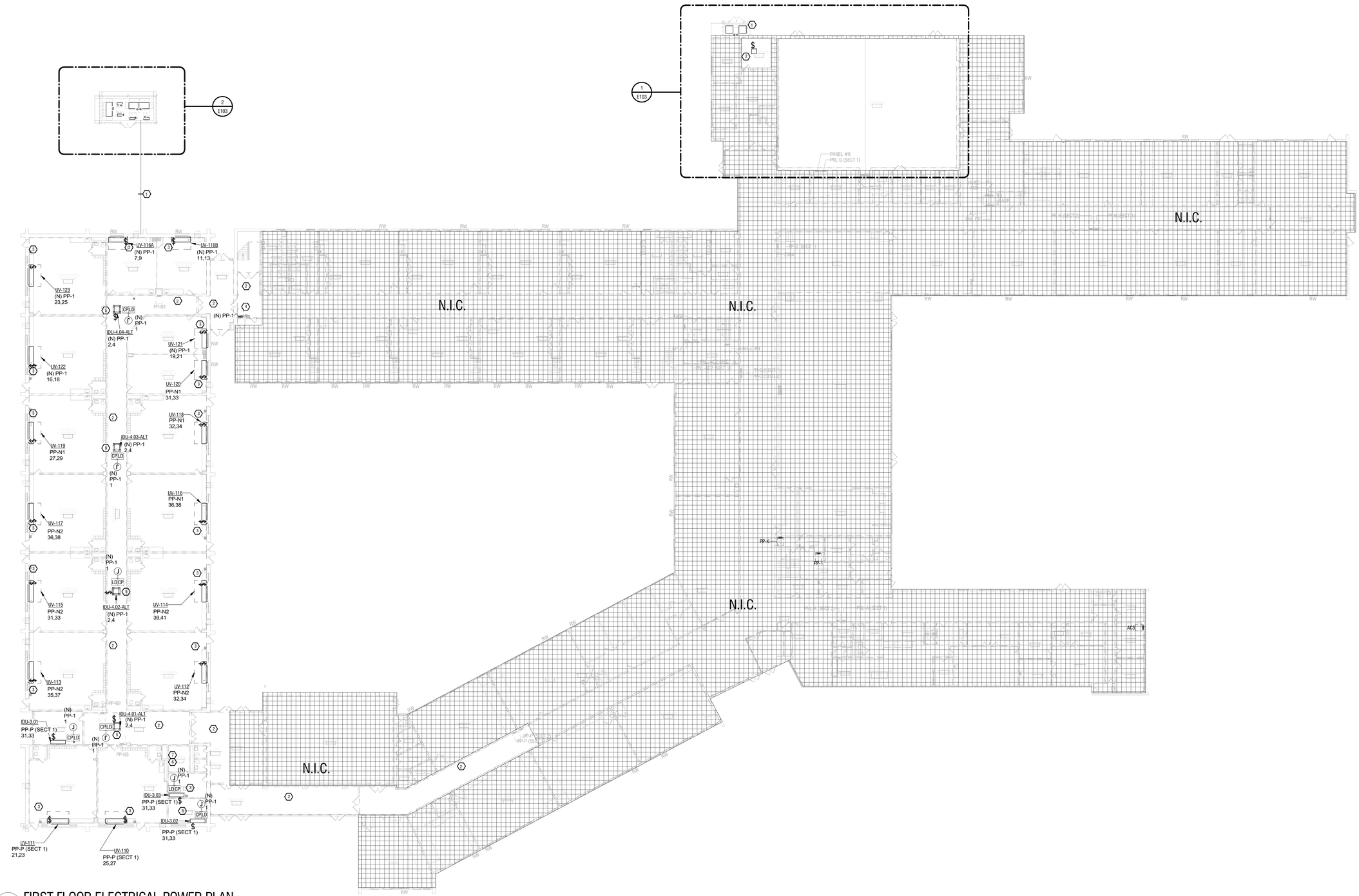
S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

BASEMENT - ELECTRICAL POWER PLAN

DRAWING NUMBER:

E100

11/6/2024 12:27:48 PM



1 E101 FIRST FLOOR ELECTRICAL POWER PLAN

1/16" = 1'-0"

GENERAL NOTES:

1. PROVIDE LOW VOTLAGE AWG 18 - 2 CONTROL WIRING BETWEEN ALL IDU UNITS AND THE ASSOCIATED ODU, DAISY CHAINED FROM ODU. SEE MANUFACTURES SPECIFICAITON AND MECHANICAL DRAWINGS FOR MORE INFORMATION.

KEY NOTES:

1. ELECTRICAL CONTRACTOR TO TRENCH OUT CONDUIT ROUTE TO NEW MECHANICAL EQUIPMENT PAD, SEE DETAIL ON E500. RUN NEW CONDUIT AND WIRING AS LISTED ON DRAWING E631. ALL UNDERGROUND FEEDER RUNS SHALL BE ENCASED IN PVC AND ALL-WEATHER EXPOSED RUNS SHALL BE ENCASED IN RIGID GALVANIZED STEEL 'RGS' AND EQUIPMENT SHALL BE IN NEMA 3R ENCLOSURE. INRILL AND REPAIR SITE AREA AS NOTED ON CIVIL AND ARCHITECTURAL PLANS. CONDUIT FEEDS SHALL RUN ABOVE ACCESSIBLE CEILING PUNCH OUT TO THE EXTERIOR WALL AND DOWN THE SIDE OF THE BUILDING INTO GROUND. PROVIDE EXPANSION JOINTS AS REQUIRED BETWEEN CONDUIT TYPE TRANSITIONS.
2. A.C.T. CEILING IN THIS LOCATION SHALL BE REMOVED AND REPLACED WITH NEW TO COORDINATE WITH NEW CONDUIT AND MECHANICAL PIPING INSTALLATION. ELECTRICAL CONTRACTOR SHALL TEMPORARILY DISCONNECT EXISTING LIGHTS FIXTURES IN A.C.T. CEILING THAT IS DENOTED TO BE REMOVED. SAFE OFF EXISTING CIRCUITING ABOVE ACCESSIBLE CEILING AND STORE EXISTING FIXTURES IN DRY SAFE LOCATION FOR REINSTALLATION IN SAME LOCATION AT COMPLETION OF PROJECT.
3. ELECTRICAL CONDUIT AND WIRING SHALL RUN WITHIN NEW ALUMINUM ENCLOSURE FROM ABOVE ACCESSIBLE CEILING DOWN TO NEW UNIT VENTILATOR. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. (TYPICAL)
4. SPLICE AND EXTEND EXISTING CONDUIT AND WIRING PREVIOUSLY SERVING EXISTING THERMOSTAT, TEMPORATURE THERMOMETER, AND RIRE ALARM PULL STATION THAT MAY BE IN CONFLICT WITH NEW WALL AND REINSTALL NEW LOCATION SHOWN ON PLANS.
5. **ADD ALTERNATE:** PROVIDE POWER TO NEW HEAT PUMP.
6. PROVIDE TEMPORARY POWER TO BUILDING IT EQUIPMENT DURING CONSTRUCTION. COORDINATE EXACT LOCATION(S) WITH OWNER.
7. PROVIDE TEMPORARY POWER TO BUILDING SECURITY EQUIPMENT DURING CONSTRUCTION. COORDINATE EXACT LOCATION(S) WITH OWNER.

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

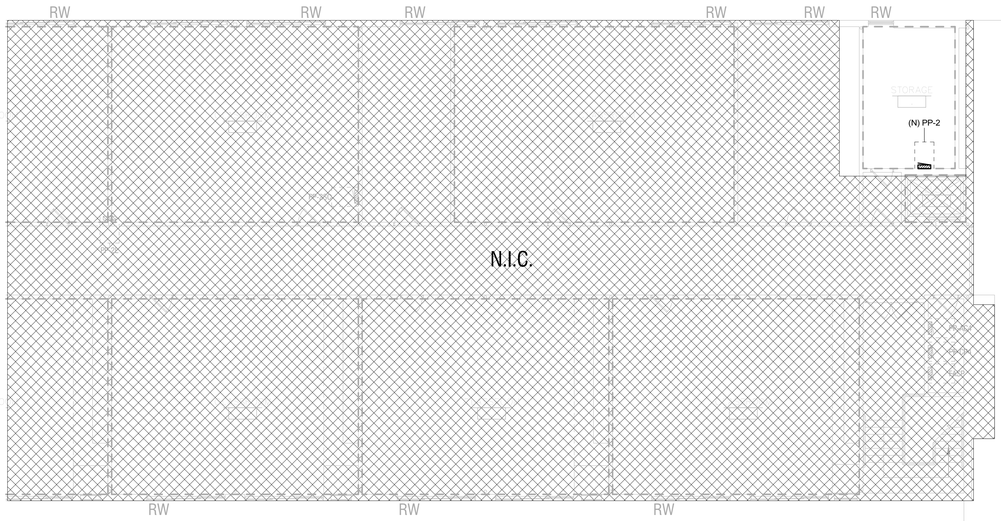
ISSUED FOR: BID

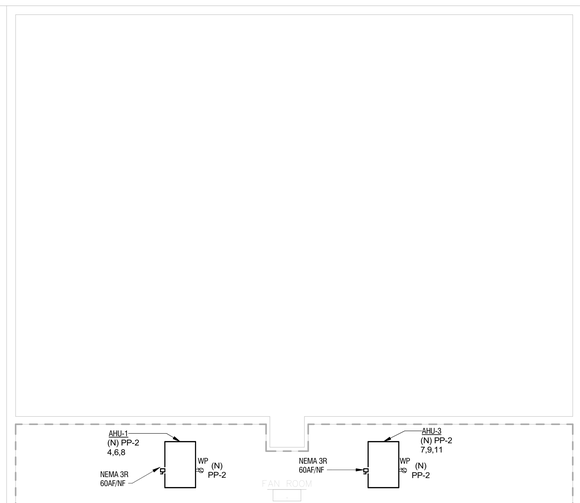
DATE: 11/12/2024

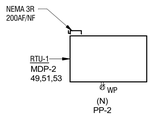
DRAWING NAME: FIRST FLOOR - ELECTRICAL POWER PLAN

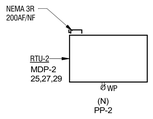
DRAWING NUMBER: E101

11/6/2024 12:37:50 PM









1 E102 2ND FLOOR PLAN ELECTRICAL PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. PROVIDE IN USE COVER FOR EXTERIOR RECEPTACLES
2. PROVIDE LOW VOTLAGE AWG 18 - 2 CONTROL WIRING BETWEEN ALL IDU UNITS AND THE ASSOCIATED ODU, DAISY CHAINED FROM ODU. SEE MANUFACTURES SPECIFICAITON AND MECHANICAL DRAWINGS FOR MORE INFORMATION.

11/6/2024 12:37:50 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

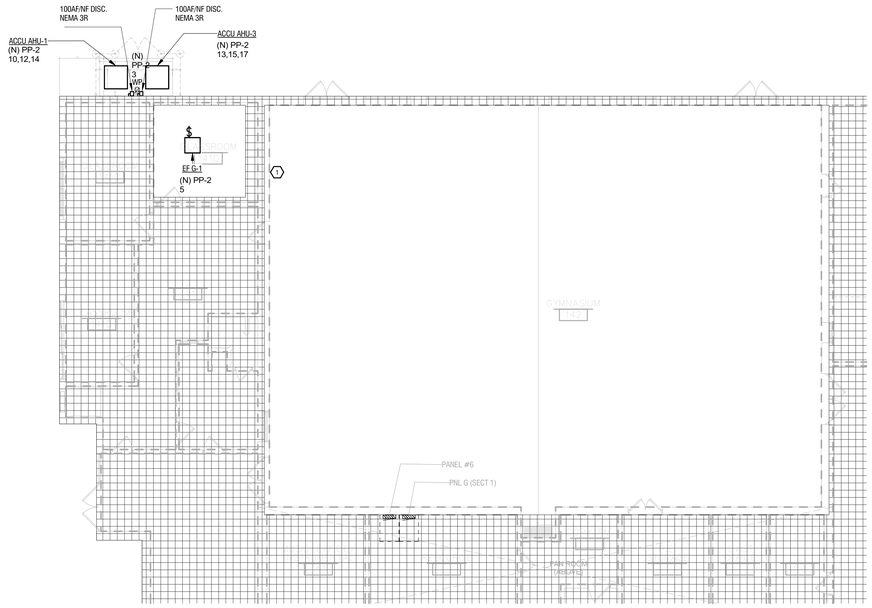
NO.	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR - ELECTRICAL POWER PLAN

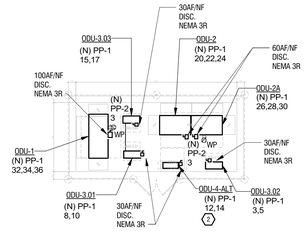
DRAWING NUMBER:

E102



1 E103 FIRST FLOOR ELECTRICAL POWER PLAN - NORTHEAST MECHANICAL PAD

1/8" = 1'-0"



2 E103 FIRST FLOOR ELECTRICAL POWER PLAN - NORTH MECHANICAL PAD

1/8" = 1'-0"

GENERAL NOTES:

1. PROVIDE LOW VOTLAGE AWG 18 - 2 CONTROL WIRING BETWEEN ALL IDU UNITS AND THE ASSOCIATED ODU, DAISY CHAINED FROM ODU. SEE MANUFACTURES SPECIFICAITON AND MECHANICAL DRAWINGS FOR MORE INFORMATION.

KEY NOTES:

1 EXISTING SECURITY CAMERA LOCATED ON THIS WALL. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH NEW EXHAUST DUCT LOUVER LOCATION. RELOCATE EXISTING CAMERA, CONDUIT AND CABLING AS REQUIRED SHOULD IT BE IN CONFLICT WITH NEW LOUVER.

2 **ADD ALATERNATE:** PROVIDE POWER TO NEW HEAT PUMP CONDENSING UNIT.

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

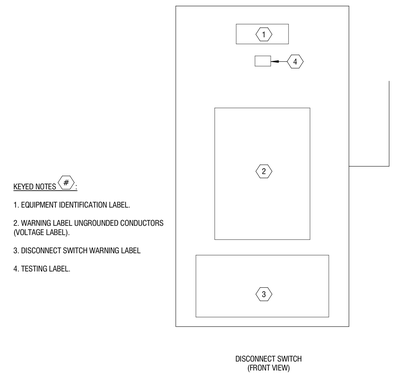
DRAWING NAME:

FIRST FLOOR - ELECTRICAL ENLARGED POWER PLANS

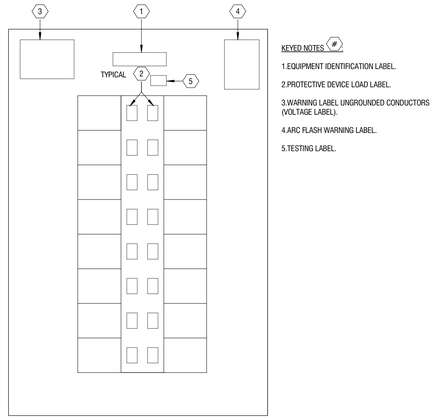
DRAWING NUMBER:

E103

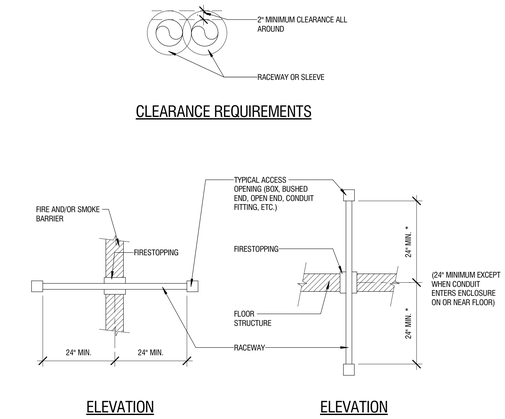
11/6/2024 12:37:52 PM



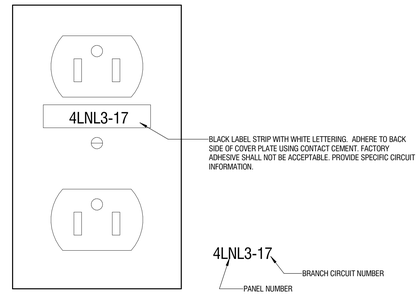
1 DISCONNECT TYP
E500 — 1/8" = 1'-0"



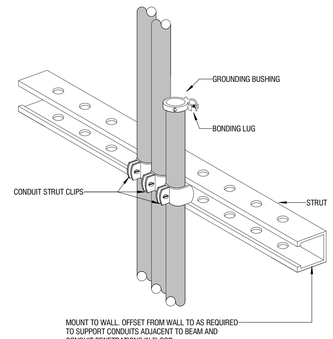
2 DISTRIBUTION PANELBOARD
E500 — 1/8" = 1'-0"



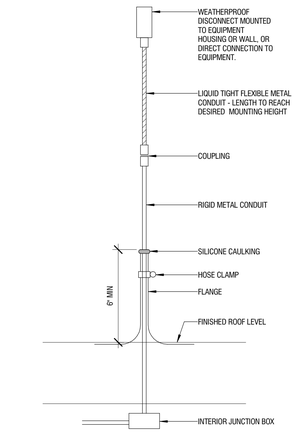
3 PENETRATION THROUGH VERT. HORIZ. FIRE AND SMOKE BARRIER
E500 — 1/8" = 1'-0"



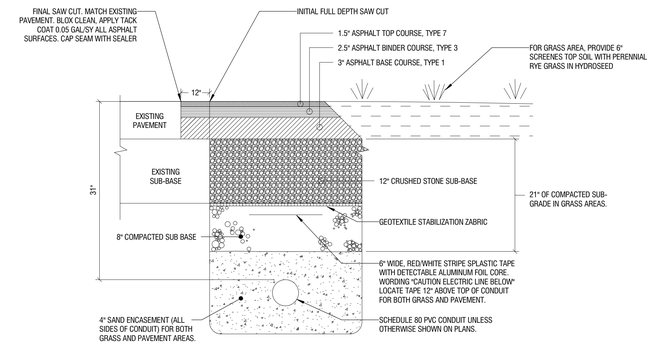
4 TYPICAL NORMAL POWER RECEPTACLE IDENTIFICATION
E500 — 1/8" = 1'-0"



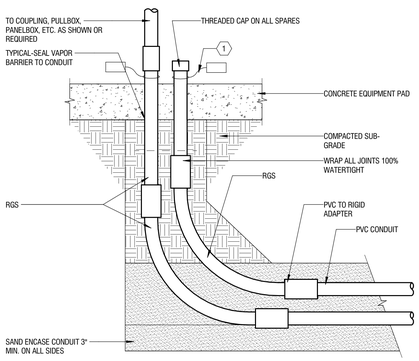
5 CONDUIT ROUGH-IN SUPPORT
E500 — 1/8" = 1'-0"



6 RACEWAY ROOF PENETRATION
E500 — 1/8" = 1'-0"



7 CONDUIT TRENCH DETAIL
E500 — 1" = 30'-0"



8 TYPICAL CONDUIT STUB-UP
E500 — 1/8" = 1'-0"

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL
300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: ELECTRICAL DETAILS
DRAWING NUMBER: E500

11/8/2024 12:37:54 PM

DESIGNATION: PP-N1

LOCATION: CORRIDOR 123
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE:
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: TYPE 1

FULLY RATED AIC:
MAIN TYPE: MCB
BUS RATING: 250 A
MCB TRIP: 250 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* **PROVIDE GFCI TYPE BREAKER**
** **REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.**
*** **COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER**

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	LIGHTS ROOM 25	20 A	1	0	0					1	20 A	RECPTS ROOM 21	2
3	LIGHTS ROOM 234	20 A	1			0	0			1	20 A	RECPTS ROOM 23	4
5	LIGHTS ROOM 21	20 A	1					0	0	1	20 A	RECPTS ROOM 25	6
7	LIGHTS ROOM 18B & 18a	20 A	1	0	0					1	20 A	RECPTS ROOM 27	8
9	LIGHTS ROOM 16	20 A	1			0	0			1	20 A	RECPTS ROOM 29A N	10
11	LIGHTS ROOM 14	20 A	1					0	0	1	20 A	RECPTS ROOM 29B S	12
13	LIGHTS ROOM 29A & 29B	20 A	1	0	0					1	20 A	RECPTS ROOM 18B	14
15	LIGHTS ROOM 27	20 A	1			0	0			1	20 A	RECPTS ROOM 18A	16
17	400a HPS FIXTURES COURTYARD	20 A	1					0	0	1	20 A	RECPTS ROOM 16	18
19	RM 120 COMPUTER OUTLETS	20 A	1	0	0					1	20 A	RECPTS ROOM 14	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Space	--	1					--	0	2	20 A	AC RECPT. ROOM 29A N	24
25	CORRIDOR RECPT	20 A	1	0	0					--	-- --	--	26
27	**(N) UNIT-VENT ROOM 119**	**15 A**	**2**			333	0			2	20 A	AC RECPT. ROOM 29B S	28
29	--	-- --	--					333	0	--	-- --	--	30
31	**(N) UNIT-VENT ROOM 120**	**15 A**	**2**	333	333					**2**	**15 A**	**(N) UNIT-VENT ROOM 118**	32
33	--	-- --	--			333	333			--	-- --	--	34
35	AC RECPT ROOM 25	20 A	2					0	333	**2**	**15 A**	**(N) UNIT-VENT ROOM 116**	36
37	--	-- --	--	0	333					--	-- --	--	38
39	AC RECPT ROOM 27	20 A	2			0							40
41	--	-- --	--					0					42
	TOTAL CONNECTED PHASE LOADS:			999 VA		999 VA		666 VA					
	TOTAL CONNECTED PHASE CURRENTS:			9 A		9 A		6 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	2664 VA	75.00%	1998 VA		
				CONNECTED LOAD:	2664 VA
				ESTIMATED DEMAND LOAD:	1998 VA
				CONNECTED CURRENT:	7 A
				ESTIMATED DEMAND CURRENT:	6 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	6 A

DESIGNATION: PP-N2

LOCATION: CORRIDOR 122
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE:
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: TYPE 1

FULLY RATED AIC:
MAIN TYPE: MCB
BUS RATING: 250 A
MCB TRIP: 250 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* **PROVIDE GFCI TYPE BREAKER**
** **REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.**
*** **COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER**

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	CORRIDOR LIGHTS	20 A	1	0	0					1	20 A	LIGHT FIXTURES	2
3	CORRIDOR EMERGENCY LIGHTS, EXITS	20 A	1			0	0			1	20 A	OUTSIDE SOUTH RECESS LIGHTS CONTACTOR	4
5	CORRIDOR RECESS, LIGHTS, ROOM 15 LIGHTS	20 A	1					0	0	1	20 A	VESTIBULE RECESS LIGHTS	6
7	LIGHTS, ROOM 111	20 A	1	0	0					1	20 A	OUTSIDE NORTH RECESS LIGHTS CONTACTOR	8
9	LIGHTS, ROOM 110	20 A	1			0	0			1	20 A	GFI ROOM 11	10
11	LIGHTS, ROOM 9, 9A, 9B, 9C, 9D	20 A	1					0	0	1	20 A	POLE LIGHTS	12
13	LIGHTS, ROOM 17	20 A	1	0	0					1	20 A	LIGHTS ROOM 10	14
15	LIGHTS ROOM 19	20 A	1			0	0			1	20 A	LIGHTS ROOM 12	16
17	Spare	20 A	1					0	0	1	20 A	RECPTS ROOM 17	18
19	CORRIDOR RECPTS	20 A	1	0	0					1	20 A	RECPT ROOM 19	20
21	RECPT. OFFICE 9A	20 A	1			0	0			1	20 A	RECPT ROOM 12	22
23	RECPT. OFFICE 9 & 9B	20 A	1					0	0	1	20 A	RECPT ROOM 10	24
25	RECPT. ROOM 15	20 A	1	0	0					1	20 A	HEATING CONTROL	26
27	RECPT. ROOM 13	20 A	1			0	0			1	20 A	H.P.S. FIXTURES PRE-K PARKING LOT REAR	28
29	RECPT. ROOM 11	20 A	1					0	0	1	20 A	Spare	30
31	**(N) UNIT-VENT ROOM 115**	**15 A**	**2**	333	333					**2**	**15 A**	**(N) UNIT-VENT ROOM 112**	32
33	--	-- --	--			333	333			--	-- --	--	34
35	**(N) UNIT-VENT ROOM 113**	**15 A**	**2**					333	333	**2**	**15 A**	**(N) UNIT-VENT ROOM 117**	36
37	--	-- --	--	333	333					--	-- --	--	38
39	**(N) UNIT-VENT ROOM 114**	**15 A**	**2**			333	0			2	20 A	Spare	40
41	--	-- --	--					333	0	--	-- --	--	42
	TOTAL CONNECTED PHASE LOADS:			1332 VA		999 VA		999 VA					
	TOTAL CONNECTED PHASE CURRENTS:			11 A		8 A		8 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	3330 VA	75.00%	2498 VA		
				CONNECTED LOAD:	3330 VA
				ESTIMATED DEMAND LOAD:	2498 VA
				CONNECTED CURRENT:	9 A
				ESTIMATED DEMAND CURRENT:	7 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	7 A

DESIGNATION: PP-P (SECT 1)

LOCATION: A12
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE:
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: TYPE 1

FULLY RATED AIC:
MAIN TYPE: MCB
BUS RATING: 200 A
MCB TRIP: 200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* **PROVIDE GFCI TYPE BREAKER**
** **REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.**
*** **COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER**

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	EXITS	20 A	1	0	0					1	20 A	Spare	2
3	Spare	20 A	1			0	0			1	20 A	Spare	4
5	CLASSROOM 108 LIGHTS	20 A	1					0	0	1	20 A	LTS C1, C2, 108 CLOSETS	6
7	CLASSROOM 108 LIGHTS	20 A	1	0	0					1	20 A	CLASSROOM 107 LIGHTS	8
9	CLASSROOM 108 LIGHTS	20 A	1			0	0			1	20 A	CLASSROOM 107 SPARE	10
11	Spare	20 A	1					0	0	1	20 A	LTS 107A, T3, 107 RECPTS	12
13	CLASSROOM 106 BATH LIGHTS	20 A	1	0	0					1	20 A	CLASSROOM 105 SPARE	14
15	CLASSROOM 104 LIGHTS	20 A	1			0	0			1	20 A	CLASSROOM 105 LIGHTS	16
17	CLASSROOM 106 LIGHTS	20 A	1					0	0	1	20 A	CLASSROOM 103 SPARE	18
19	CLASSROOM 104 LIGHTS	20 A	1	0	0					1	20 A	CLASSROOM 103 LIGHTS	20
21	**(N) UNIT-VENT ROOM 111**	**15 A**	**2**			333	0			1	20 A	CLASSROOM 101 SPARE	22
23	--	-- --	--					333	0	1	20 A	CLASSROOM 101 LIGHTS	24
25	**(N) UNIT-VENT ROOM 110**	**15 A**	**2**	333	0					1	20 A	CLASSROOM 107 RECPTS	26
27	--	-- --	--			333	0			1	20 A	CLASSROOM 105 RECPTS	28
29	CLASSROOM 106 RECPTS.	20 A	1					0	0	1	20 A	CLASSROOM 103 RECPTS	30
31	**IDU-3.01, IDU-3.02, IDU-3.03**	**15 A**	**2**	99.8									32
33	--	-- --	--			99.8							34
35													36
37													38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			433 VA		766 VA		333 VA					
	TOTAL CONNECTED PHASE CURRENTS:			4 A		7 A		3 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	1332 VA	75.00%	999 VA		
Other	200 VA	100.00%	200 VA		
				CONNECTED LOAD:	1532 VA
				ESTIMATED DEMAND LOAD:	1199 VA
				CONNECTED CURRENT:	4 A
				ESTIMATED DEMAND CURRENT:	3 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	3 A

DESIGNATION: MDP

LOCATION:
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE:
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 200000
MAIN TYPE: MCB
BUS RATING: 3000 A
MCB TRIP: 3000 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* **PROVIDE GFCI TYPE BREAKER**
** **REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.**
*** **COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER**

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	AC-5	200...	3	0	0					3	225 A	D-2	2
3	--	-- --	--			0	0			--	-- --	--	4
5	--	-- --	--					0	0	--	-- --	--	6
7	2SC	100 A	3	0	0					3	120...	MDP-2 (SWITCH)	8
9	--	-- --	--			0	0			--	-- --	--	10
11	--	-- --	--					0	0	--	-- --	--	12
13	AC-4	400 A	3	0	0					3	125 A	HMEC	14
15	--	-- --	--			0	0			--	-- --	--	16
17	--	-- --	--					0	0	--	-- --	--	18
19	**(N) PNL-AC-2**	**200 A**	**3**	15160	0					3	20 A	AC6	20
21	--	-- --	--			15340	0			--	-- --	--	22
23	--	-- --	--					15640	0	--	-- --	--	24
25	AC-3	400 A	3	0	0					3	20 A	CP-1	26
27	--	-- --	--			0	0			--	-- --	--	28
29	--	-- --	--					0	0	--	-- --	--	30
31	AC-2	400 A	3	0	0					3	20 A	CP-2	32
33	--	-- --	--			0	0			--	-- --	--	34
35	--	-- --	--					0	0	--	-- --	--	36
37	AC-1	300 A	3	0	0					3	20 A	CP-3	38
39	--	-- --	--			0	0			--	-- --	--	40
41	--	-- --	--					0	0	--	-- --	--	42
43	**(N) PNL-AC-1**	**200 A**	**3**	16487.3	0					3	20 A	CP-4	44
45	--	-- --	--			16919.1	0			--	-- --	--	46
47	--	-- --	--					17155.6	0	--	-- --	--	48
49	Space		--	1	--	--				1	--	Space	50
51	Space		--	1			--	--		1	--	Space	52
53	Space		--	1					--	--	1	--	Space	54
55	Space		--	1	--	--				1	--	Space	56
57	Space		--	1			--	--		1	--	Space	58
59	Space		--	1					--	--	1	--	Space	60
61	Space		--	1	--	--				1	--	Space	62
63	Space		--	1			--	--		1	--	Space	64
	TOTAL CONNECTED PHASE LOADS:			31647 VA		32259 VA		32796 VA					
	TOTAL CONNECTED PHASE CURRENTS:			264 A		270 A		274 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	65491 VA	75.00%	49118 VA		
Other	29451 VA	100.00%	29451 VA	**CONNECTED LOAD:**	96702 VA
Receptacle	1620 VA	100.00%	1620 VA	**ESTIMATED DEMAND LOAD:**	80329 VA
Power	140 VA	100.00%	140 VA	**CONNECTED CURRENT:**	268 A
				ESTIMATED DEMAND CURRENT:	223 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	223 A

TOTAL BUILDING ELECTRICAL LOADS:

CENTRAL HUDSON METERREADING PEAK LOAD PRE-CONSTRUCTION: 259KVA
NEW EQUIPMENT LOAD: 308KVA
POTENTIAL LOAD SHED: (13KVA)
TOTAL CONNECTED LOAD: **554KVA**
TOTAL DEMAND LOAD: **477KVA**

DESIGNATION: MDP-2

LOCATION:
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE:
DISTRIBUTION VOLTAGE: 208Y/120V
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 200000
MAIN TYPE: MCB
BUS RATING: 1200 A
MCB TRIP: 1200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* **PROVIDE GFCI TYPE BREAKER**
** **REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.**
*** **COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER**

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	BOTTOM CONVECTION OVEN	60 A	3	0	0					3	20 A	MOTOR	2
3	--	-- --	--			0	0			--	-- --	--	4
5	--	-- --	--					0	0	--	-- --	--	6
7	HEAT PUMP P1	20 A	3	0	0					3	100 A	SHOP	8
9	--	-- --	--			0	0			--	-- --	--	10
11	--	-- --	--					0	0	--	-- --	--	12
13	TOP CONVECTION OVEN	60 A	3	0	0					3	20 A	HEAT PUMP P2	14
15	--	-- --	--			0	0			--	-- --	--	16
17	--	-- --	--					0	0	--	-- --	--	18
19	PANEL CL	60 A	3	0	0					3	70 A	PANEL B	20
21	--	-- --	--			0	0			--	-- --	--	22
23	--	-- --	--					0	0	--	-- --	--	24
25	**RTU-2**	**110 A**	**3**	**7793.3**	0					3	100 A	PANEL K	26
27	--	-- --	--			**7793.3**	0			--	-- --	--	28
29	--	-- --	--					**7793.3**	0	--	-- --	--	30
31	ELEVATOR	100 A	3	0	0					3	100 A	PANEL A	32
33	--	-- --	--			0	0			--	-- --	--	34
35	--	-- --	--					0	0	--	-- --	--	36
37	PANEL B2	225 A	3	0	0					3	100 A	PANEL C	38
39	--	-- --	--			0	0			--	-- --	--	40
41	--	-- --	--					0	0	--	-- --	--	42
43	PANEL S	100 A	3	0	0					3	100 A	PANEL G	44
45	--	-- --	--			0	0			--	-- --	--	46
47	--	-- --	--					0	0	--	-- --	--	48
49	**RTU-1**	**110 A**	**3**	**7793.3**	0					3	100 A	AIR CONDITIONER	50
51	--	-- --	--			**7793.3**	0			--	-- --	--	52
53	--	-- --	--					**7793.3**	0	--	-- --	--	54
55	PANEL P	100 A	3	0	0					3	100 A	PANEL H	56
57	--	-- --	--			0	0			--	-- --	--	58
59	--	-- --	--					0	0	--	-- --	--	60
61	PANEL N3	150 A	3	0	0					3	100 A	PANEL D	62
63	--	-- --	--			0	0			--	-- --	--	64
65	--	-- --	--					0	0	--	-- --	--	66
67	INSTANT HOT WATER HEATER	100 A	3	0	0					3	100 A	PANELS 1L & 2L	68
69	--	-- --	--			0	0			--	-- --	--	70
71	--	-- --	--					0	0	--	-- --	--	72
73	PANEL N1	250 A	3	0	0					3	250 A	PANEL N2	74
75	--	-- --	--			0	0			--	-- --	--	76
77	--	-- --	--					0	0	--	-- --	--	78
	TOTAL CONNECTED PHASE LOADS:			15587 VA		15587 VA		15587 VA					
	TOTAL CONNECTED PHASE CURRENTS:			130 A		130 A		130 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	46760 VA	75.00%	35070 VA		
				CONNECTED LOAD:	46760 VA
				ESTIMATED DEMAND LOAD:	35070 VA
				CONNECTED CURRENT:	130 A
				ESTIMATED DEMAND CURRENT:	97 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	97 A

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

ELECTRICAL PANEL SCHEDULES

DRAWING NUMBER:

E600

11/6/2024 12:37:57 PM

DESIGNATION: (N) PP-1

LOCATION:
FED FROM: MDP
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE:
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: RECESSED
ENCLOSURE TYPE: TYPE 1

FULLY RATED AIC: 22000
MAIN TYPE: MLO
BUS RATING: 200 A
MCB TRIP: 200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	LEAK DETECTOR AND CONDENSATE PUMP	20 A	1	140	133.1					2	15 A	IDU-4.01, IDU-4.02, IDU-4.03, IDU-4.04	2
3	ODU-3.02	15 A	2			1248	133.1			--	-- --	--	4
5	--	-- --	--					1248	0	1	20 A	Spare	6
7	(N) UNIT-VENT ROOM 116A	15 A	2	333	1248					2	15 A	ODU-3.01	8
9	--	-- --	--			333	1248			--	-- --	--	10
11	(N) UNIT-VENT ROOM 116B	15 A	2					333	1591.2	2	20 A	ODU-4	12
13	--	-- --	--	333	1591.2					--	-- --	--	14
15	ODU-3.03	15 A	2			1248	333			2	15 A	(N) UNIT-VENT ROOM 122	16
17	--	-- --	--					1248	333	--	-- --	--	18
19	(N) UNIT-VENT ROOM 121	15 A	2	333	3104.6					3	50 A	ODU-2	20
21	--	-- --	--			333	3104.6			--	-- --	--	22
23	(N) UNIT-VENT ROOM 123	15 A	2					333	3104.6	--	-- --	--	24
25	--	-- --	--	333	3104.6					3	50 A	ODU-2A	26
27	Spare	20 A	1			0	3104.6			--	-- --	--	28
29	Spare	20 A	1					0	3104.6	--	-- --	--	30
31	Spare	20 A	1	0	5860.2					3	80 A	ODU-1	32
33	Spare	20 A	1			0	5860.2			--	-- --	--	34
35	Spare	20 A	1					0	5860.2	--	-- --	--	36
37	Spare	20 A	1	0									38
39	Spare	20 A	1			0							40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			16487 VA		16919 VA		17156 VA					
	TOTAL CONNECTED PHASE CURRENTS:			137 A		142 A		144 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	22171 VA	75.00%	16628 VA		
Other	28251 VA	100.00%	28251 VA	CONNECTED LOAD:	50562 VA
Power	140 VA	100.00%	140 VA	ESTIMATED DEMAND LOAD:	45019 VA
				CONNECTED CURRENT:	140 A
				ESTIMATED DEMAND CURRENT:	125 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	125 A

DESIGNATION: (N) PP-2

LOCATION: STORAGE
FED FROM: MDP
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE:
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: TYPE 1

FULLY RATED AIC: 22000
MAIN TYPE: MLO
BUS RATING: 200 A
MCB TRIP: 200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	OUTDOOR CONVENIENCE RECEPTACLE	20 A	1	360	360					1	20 A	OUTDOOR CONVENIENCE RECEPTACLE	2
3	ROOFTOP RECEPTACLES	20 A	1			900	2502.9			3	35 A	AHU-1	4
5	EF G-1	20 A	1					1200	2502.9	--	-- --	--	6
7	AHU-3	35 A	3	2502.9	2502.9					--	-- --	--	8
9	--	-- --	--			2502.9	4717.1			3	80 A	ACCU AHU-1	10
11	--	-- --	--					2502.9	4717.1	--	-- --	--	12
13	ACCU AHU-3	80 A	3	4717.1	4717.1					--	-- --	--	14
15	--	-- --	--			4717.1	0			1	20 A	Spare	16
17	--	-- --	--					4717.1	0	1	20 A	Spare	18
19	Spare	20 A	1	0	0					1	20 A	Spare	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
	TOTAL CONNECTED PHASE LOADS:			15160 VA		15340 VA		15640 VA					
	TOTAL CONNECTED PHASE CURRENTS:			126 A		128 A		131 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	43320 VA	75.00%	32490 VA		
Other	1200 VA	100.00%	1200 VA	CONNECTED LOAD:	46140 VA
Receptacle	1620 VA	100.00%	1620 VA	ESTIMATED DEMAND LOAD:	35310 VA
				CONNECTED CURRENT:	128 A
				ESTIMATED DEMAND CURRENT:	98 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	98 A

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 016281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

ELECTRICAL PANEL SCHEDULES

DRAWING NUMBER:

E601

11/6/2024 12:37:59 PM

EQUIPMENT SCHEDULE - UNIT VENTS - ELECTRICAL POWER

				ELECTRICAL												
EQUIPMENT TAG	Manufacturer	Model	Product Name	Voltage	Phase	NUMBER OF POLE	Minimum Circuit Ampacity	Maximum Overcurrent Protection	Frequency	VA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
UV-110	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	PP-P (SECT 1)	25,27	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-111	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	PP-P (SECT 1)	21,23	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-112	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	PP-N2	32,34	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-113	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	PP-N2	35,37	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-114	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	PP-N2	39,41	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-115	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	PP-N2	31,33	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-116	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	PP-N1	36,38	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-116A	DAIKIN APPLIED	UAVS9A07	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	(N) PP-1	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-116B	DAIKIN APPLIED	UAVS9A07	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	(N) PP-1	11,13	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-117	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	PP-N2	36,38	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-118	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	PP-N1	32,34	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-119	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	PP-N1	27,29	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-120	DAIKIN APPLIED	UAVS9A07	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	PP-N1	31,33	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-121	DAIKIN APPLIED	UAVS9A07	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	(N) PP-1	19,21	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-122	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	(N) PP-1	16,18	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-123	DAIKIN APPLIED	UAVS9V13	UNIT VENT	208 V	1	2	4 A	15 A	60 Hz	666	(N) PP-1	23,25	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.

EQUIPMENT SCHEDULE - AIR COOLED CONDENSION UNIT - ELECTRICAL POWER

			ELECTRICAL										
EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	SUPPLY VOLTAGE	FLA	MCA	MOP	VA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
ACCU AHU-1	DAIKIN	DX14XA1203A	208V/3PH	39.2	47.7	80	14151.2	(N) PP-2	10,12,14	100AF/NF	(1 SET) 4#3 - 1#8G IN 1-1/4"RGS		DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE,ALL EXTERIOR RUN CONDUIT SHALL BE RUN IN RIGID GALVANIZED STEEL.
ACCU AHU-3	DAIKIN	DX14XA1203A	208V/3PH	39.2	47.7	80	14151.2	(N) PP-2	13,15,17	100AF/NF	(1 SET) 4#3 - 1#8G IN 1-1/4"RGS		DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE,ALL EXTERIOR RUN CONDUIT SHALL BE RUN IN RIGID GALVANIZED STEEL.

EQUIPMENT SCHEDULE - AIR HANDLING UNITS - ELECTRICAL POWER

			ELECTRICAL									
EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	SUPPLY VOLTAGE	MCA	MOP	KVA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
AHU-1	DAIKIN	BCHE0401	208/3	26	35	7508.8	(N) PP-2	4,6,8	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"RGS		DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE,ALL EXTERIOR RUN CONDUIT SHALL BE RUN IN RIGID GALVANIZED STEEL.
AHU-3	DAIKIN	BCHE0401	208/3	26	35	7508.8	(N) PP-2	7,9,11	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"RGS		DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE,ALL EXTERIOR RUN CONDUIT SHALL BE RUN IN RIGID GALVANIZED STEEL.

EQUIPMENT SCHEDULE - EXHAUST FAN - ELECTRICAL POWER

EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	SUPPLY VOLTAGE	FLA	MOP	VA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	COMMENTS
EF G-1	GREENHECK	G-180-VG	115V / 1PH	10	20	1200	(N) PP-2	5	MOTOR RATED SWITCH	(1 SET) 2#12+1#12G IN 3/4"C	PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH. ALL EXTERIOR RUN CONDUIT SHALL BE RUN IN RIGID GALVANIZED STEEL.

EQUIPMENT SCHEDULE - VRF HEAT PUMP INDOOR UNIT - ELECTRICAL POWER

			ELECTRICAL								
EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	SUPPLY VOLTAGE	MCA	MOP	VA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
IDU-3.01	DAIKIN	FTX12NMVJU	208V/1PH	0.4	15	66.56	PP-P (SECT 1)	31,33	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	
IDU-3.02	DAIKIN	FTX12NMVJU	208V/1PH	0.4	15	66.56	PP-P (SECT 1)	31,33	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	
IDU-3.03	DAIKIN	FTX12NMVJU	208V/1PH	0.4	15	66.56	PP-P (SECT 1)	31,33	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	
IDU-4.01-ALT	DAIKIN	FXZ012TAVJU	208V/1PH	0.4	15	66.56	(N) PP-1	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	
IDU-4.02-ALT	DAIKIN	FXZ012TAVJU	208V/1PH	0.4	15	66.56	(N) PP-1	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	
IDU-4.03-ALT	DAIKIN	FXZ012TAVJU	208V/1PH	0.4	15	66.56	(N) PP-1	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	
IDU-4.04-ALT	DAIKIN	FXZ012TAVJU	208V/1PH	0.4	15	66.56	(N) PP-1	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	

EQUIPMENT SCHEDULE - AIR-COOLED VRV HEAT PUMP CONDENSING UNIT - ELECTRICAL POWER

				ELECTRICAL									
EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	SUPPLY VOLTAGE	FLA	MCA	RLA	MOP	VA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
ODU-1	DAIKIN	RXYQ24AATJA	208V/3PH	34.64 x 2	73.7	48.7	80	17580.7	(N) PP-1	32,34,36	100AF/NF	(1 SET) 4#3+1#8G IN 1-1/4"RGS	HARDWIRED	DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE.
ODU-2	DAIKIN	RXYQ288AATJA	208V/3PH	34.64	47.8	25.8	50	9313.8	(N) PP-1	20,22,24	60AF/NF	(1 SET) 4#4+1#10G IN 1-1/4"RGS	HARDWIRED	DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE.
ODU-2A	DAIKIN	RXYQ144AATJA	208V/3PH	34.64	47.8	25.8	50	9313.8	(N) PP-1	26,28,30	60AF/NF	(1 SET) 4#4+1#10G IN 1-1/4"RGS	HARDWIRED	DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE.
ODU-3.01	DAIKIN	RXL12QMVJU9	208V/1PH		13.0	12.0	15	2496	(N) PP-1	8,10	30AF/NF	(1 SET) 3#12+1#12G IN 3/4"RGS	HARDWIRED	DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE.
ODU-3.02	DAIKIN	RXL12QMVJU9	208V/1PH		13.0	12.0	15	2496	(N) PP-1	3,5	30AF/NF	(1 SET) 3#12+1#12G IN 3/4"RGS	HARDWIRED	DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE.
ODU-3.03	DAIKIN	RXL12QMVJU9	208V/1PH		13.0	12.0	15	2496	(N) PP-1	15,17	30AF/NF	(1 SET) 3#12+1#12G IN 3/4"RGS	HARDWIRED	DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE.
ODU-4-ALT	DAIKIN	RXTQ36TBVJU	208V/1PH	13.2	16.5	15.3	20	3182.4	(N) PP-1	12,14	30AF/NF	(1 SET) 3#12+1#12G IN 3/4"RGS	HARDWIRED	DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE.

EQUIPMENT SCHEDULE - ROOF TOP UNIT - ELECTRICAL POWER

			ELECTRICAL									
EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	SUPPLY VOLTAGE	FLA	MCA	MOP	VA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
RTU-1	DAIKIN	DPSC07B	208V/3PH	64.9	75.4	110	23380	MDP-2	49,51,53	200AF/NF	(1 SET) 4#2+1#6G IN 1-1/4"RGS		DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE,ALL EXTERIOR RUN CONDUIT SHALL BE RUN IN RIGID GALVANIZED STEEL.
RTU-2	DAIKIN	DPSC07B	208V/3PH	64.9	75.4	110	23380	MDP-2	25,27,29	200AF/NF	(1 SET) 4#2+1#6G IN 1-1/4"RGS		DISCONNECT SWITCH TO BE NEMA 3R WEATHER PROOF ENCLOSURE,ALL EXTERIOR RUN CONDUIT SHALL BE RUN IN RIGID GALVANIZED STEEL.

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

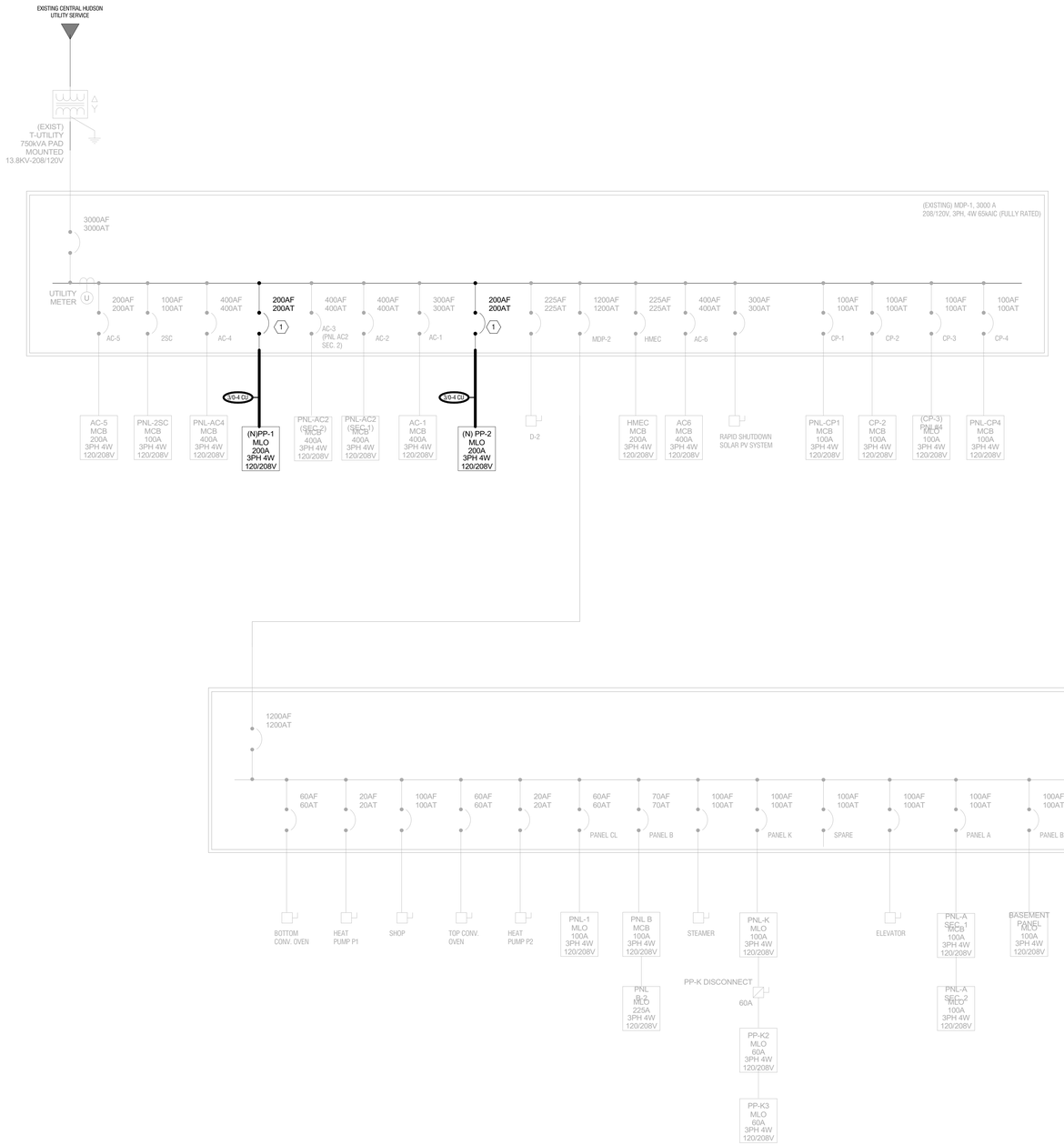
DRAWING NAME:

ELECTRICAL SYSTEM SCHEDULES

DRAWING NUMBER:

E631

11/6/2024 12:39:02 PM



COPPER FEEDER SCHEDULE

CONDUCTOR AND NEUTRAL SIZE	EGC SIZE	GEC SIZE	CONDUIT(S)*	310.15(B)16)75C
12	#12	-	.5"C	20A
10	#10	-	.5"C	30A
8	#10	-	.75"C	50A
6	#8	-	1.0"C	65A
4	#8	-	1.25"C	85A
3	#8	#8	1.25"C	100A
2	#6	#8	1.25"C	115A
1	#6	#6	1.5"C	130A
1/0	#6	#6	2"C	150A
2/0	#6	#4	2"C	175A
3/0	#6	#4	2"C	200A
4/0	#4	#2	2.5"C	230A
250	#4	#2	2.5"C	255A
300	#4	#2	3"C	285A
350	#3	#2	3"C	310A
400	#3	#1/0	3"C	335A
500	#3	#1/0	3.5"C	380A
600	#2	#1/0	4"C	420A
(2) SETS 250	#1	#1/0	(2)2.5"C	510A
(2) SETS 300	#1	#1/0	(2)3"C	570A
(2) SETS 350	#1/0	#2/0	(2)3"C	620A
(2) SETS 400	#1/0	#2/0	(2)3"C	670A
(2) SETS 500	#1/0	#2/0	(2)3.5"C	760A
(2) SETS 600	#1/0	#2/0	4"C	840A
(4) SETS 350	#3	#2	(4)3"C	1240A
(8) SETS 500	#1/0	#2/0	(8)4"C	3000A

*BASED ON TABLE C8 - RMC WITH 5 THHN CONDUCTORS

LEGEND: 12-4 = #12, 4WIRES
(2) 350-4 = 2 SETS 350, 4 WIRE PER SET

GENERAL NOTES:

A. REFER TO SHEET E-631 FOR MECHANCAIL EQUIPMENT FEEDER INFORMATION.

KEYED NOTES:

1. REMOVE EXISTING SPARE 100AF/100AT CIRCUIT BREAKER FROM SWITCHGEAR AND RETROFIT NEW 200AF/200AT FOR NEW ELECTRICAL PANEL AS SHOWN.
2. REMOVE EXISTING SPARE125AF/125AT CIRCUIT BREAKER FROM SWITCHGEAR AND RETROFIT NEW 200AF/200AT FOR NEW ELECTRICAL PANEL AS SHOWN.

1 E700 ELECTRICAL SINGLE LINE
1/8" = 1'-0"

11/6/2024 12:39:07 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

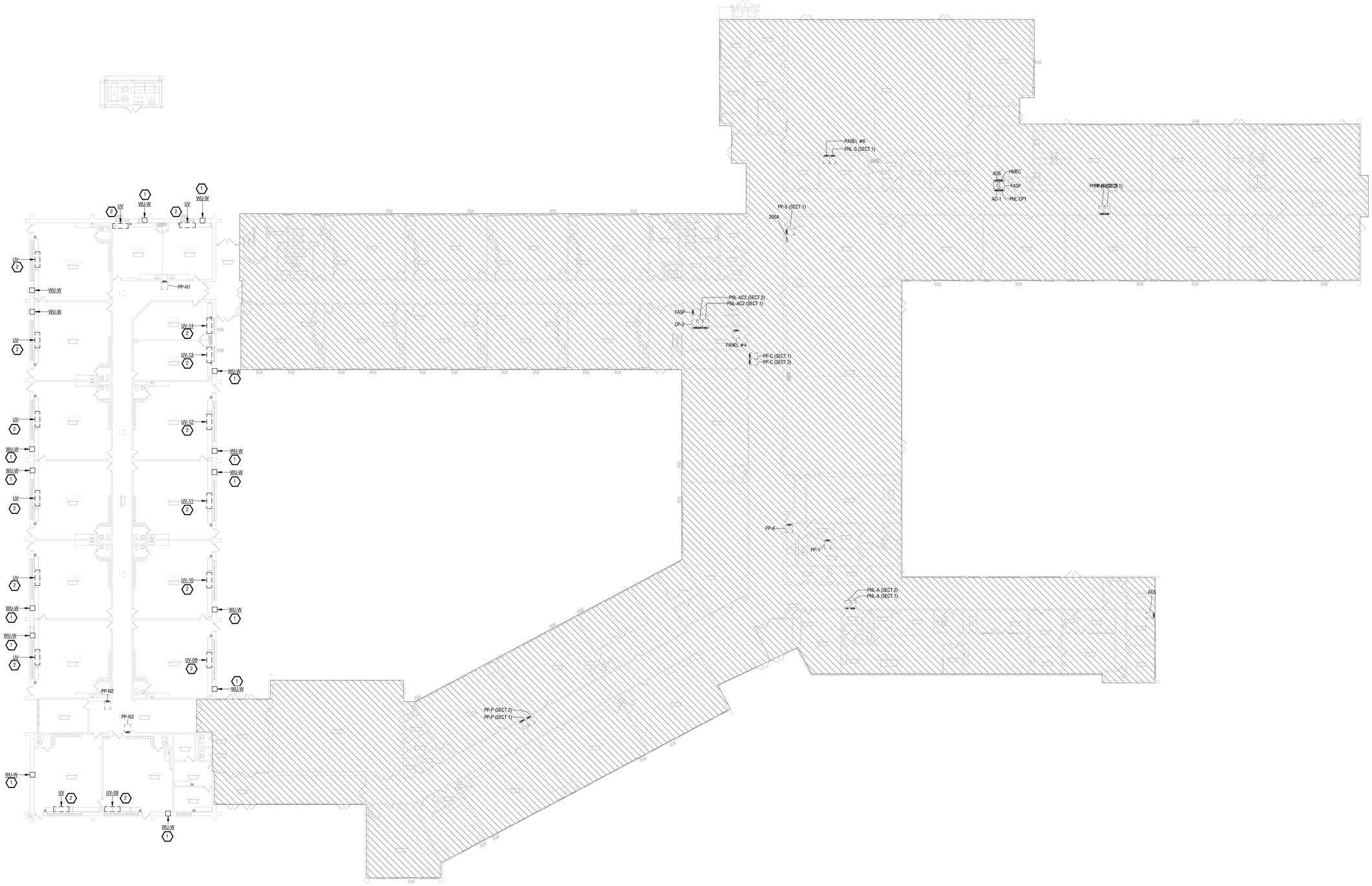
NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

ELECTRICAL ONE-LINE DIAGRAM

DRAWING NUMBER:

E700



1 ED100

FIRST FLOOR ELECTRICAL DEMOLITION PLAN

1/16" = 1'-0"

KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING MECHANICAL WINDOW UNIT. ABANDON EXISTING POWER RECEPTACLE TO AC UNIT IN PLACE FOR FURTURE USE. REMOVE EXISTING WIRE AND CONDUIT BACK TO SOURECE. PROVIDE BLANK COVERPLATE. TRACE OUT RECEPTACLE CIRCUIT BACK TO SOURCE, TURN TO THE OFF POSTION, AND MARK AS SPARE.
2. DISCONNECT AND REMOVE EXISTING UNIT VENT IN THIS ROOM. REMOVE EXISTING CIRCUIT AND CABLING BACK TO SOURCE. SWITCH BREAKER TO THE OFF POSITION AND MARK AS SPARE.
3. SEE DRAWING E-001 FOR ADDITIONAL ELECTRICAL DEMOLITION NOTES.

11/6/2024 12:37:48 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

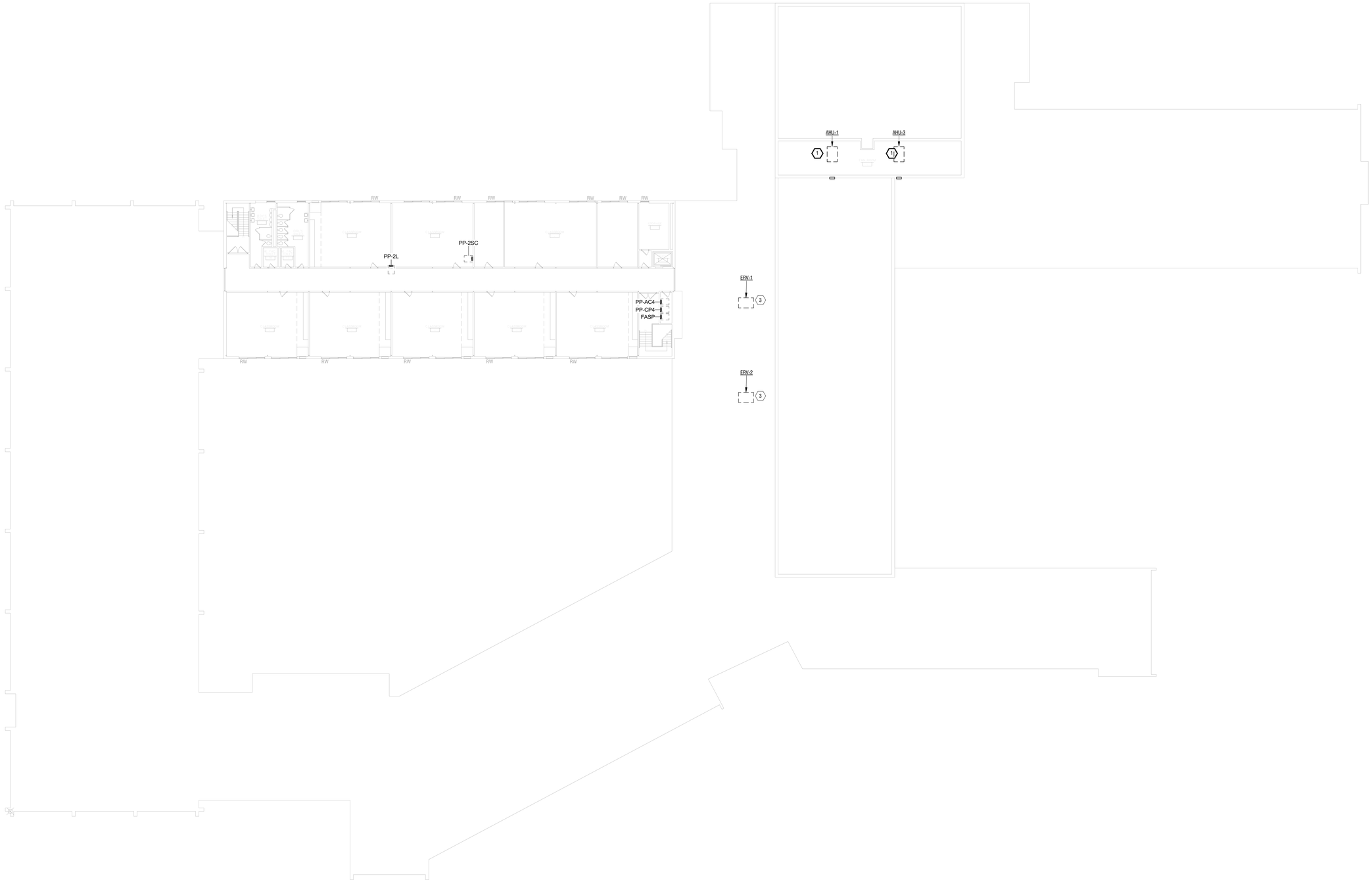
REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: FIRST FLOOR ELECTRICAL DEMOLITION PLAN

DRAWING NUMBER: ED100



1 ED101 SECOND FLOOR ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING AIR HANDLING UNIT. REMOVE EXISTING CONDUIT AND CIRCUITING BACK TO SOURCE. SWITCH BREAKER TO THE OFF POSITION AND MARK AS SPARE.
2. SEE DRAWING E-001 FOR ADDITIONAL ELECTRICAL DEMOLITION NOTES.
3. DISCONNECT AND REMOVE EXISTING ERV UNIT. REMOVE EXISTING CONDUIT AND CIRCUITING BACK TO SOURCE. SWITCH BREAKER TO THE OFF POSITION AND MARK AS SPARE.

11/6/2024 12:37:48 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL

300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

SECOND FLOOR ELECTRICAL DEMOLITION PLAN

DRAWING NUMBER:

ED101

ASBESTOS GENERAL NOTES:

1. ALL ASBESTOS ABATEMENT WORK TO BE DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH CODE RULE 56 OF NEW YORK STATE RULES AND REGULATIONS, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
2. IN LIEU OF THE ABOVE REFERENCED REQUIREMENTS, THE CONTRACTOR MAY APPLY FOR A SITE-SPECIFIC VARIANCE. TO UTILIZE A SITE-SPECIFIC VARIANCE THE CONTRACTOR SHALL MEET ALL CONDITIONS OF THE VARIANCE, AS STATED BY THE NYS DEPARTMENT OF LABOR. ALL COSTS ASSOCIATED WITH THE APPLICATION OF SITE-SPECIFIC VARIANCES SHALL BE BORNE BY THE CONTRACTOR. ALL PROPOSED SITE-SPECIFIC VARIANCES SHALL BE REVIEWED BY THE CONSULTANT PRIOR TO SUBMITTAL TO THE NYSDOL.
3. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL, OR SUSPECT MATERIAL, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.
4. CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT BE LIABLE FOR THEFT OR DAMAGE.
5. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION. CONTRACTOR SHALL ENSURE THAT UNCERTIFIED PERSONNEL OR UNAUTHORIZED VISITORS DO NOT ENTER ACTIVE WORK AREAS AT ANY TIME.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY PROTECTION TO KEEP THE BUILDING IN A WATERTIGHT CONDITION AND TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES DURING THE DURATION OF THE PROJECT. REPAIR OR DAMAGE CAUSED AS A RESULT OF IMPROPER TEMPORARY PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT, AND WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
8. THE OWNER SHALL BE RESPONSIBLE FOR HIRING AND PAYING AN INDEPENDENT THIRD PARTY FIRM TO PERFORM ALL OF THE REQUIREMENTS OF MONITORING AS CALLED FOR IN CODE RULE 56.
9. MARKED AREAS DEPICTING WORK AREAS ARE APPROXIMATE ONLY. EXACT CUTOFF POINTS SHALL BE COORDINATED BY THE CONTRACTOR WITH OWNER'S REPRESENTATIVE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS AND ABATE MATERIALS SCHEDULED FOR REMOVAL.
11. ANY AND ALL ASSUMED ASBESTOS-CONTAINING MATERIALS SHALL BE ABATED AS ACM UNTIL TESTED OR PROVEN TO BE NEGATIVE OTHERWISE.
12. IF ADDITIONAL SUSPECT ACM IS DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER IMMEDIATELY.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CURRENT WASTE HANDLING, TRANSPORTATION AND DISPOSAL REGULATIONS FOR THE WORK. THE CONTRACTOR MUST DISPOSE OF ALL ASBESTOS MATERIALS REMOVED AND COMPLY FULLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
14. THE CONDITIONS SHOWN ON THIS DRAWING ARE BASED ON FIELD OBSERVATIONS AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. CONSEQUENCES OF FAILURE TO FIELD VERIFY CONDITIONS SHALL BE BORNE BY THE CONTRACTOR. MORE INFORMATION ON THE KNOWN ASBESTOS CONTAINING MATERIALS ASSOCIATED WITH THIS PROJECT CAN BE FOUND IN THE LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION REPORTS ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING WATER AND ELECTRICAL UTILITY CONNECTIONS REQUIRED OF ABATEMENT PROCEDURES. COORDINATE WITH BUILDING OWNER OR OWNER'S REPRESENTATIVE.

LEAD AWARENESS NOTES:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION: INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD. SEE SPECIFICATION SECTION 020810 - PROTECTION OF WORKERS - LEAD-CONTAINING MATERIALS FOR ADDITIONAL INFORMATION.

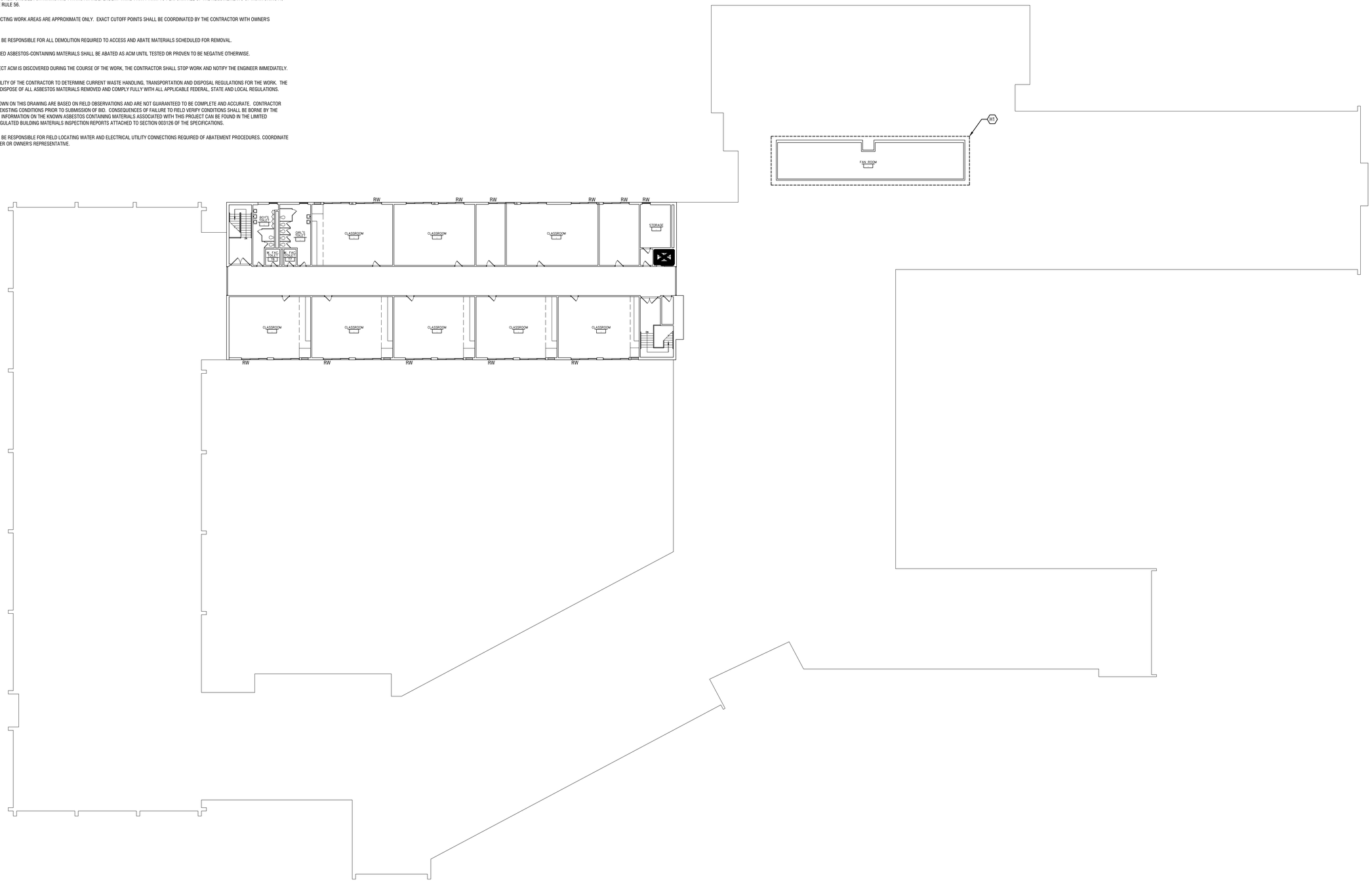
B. THE CONTRACTOR IS RESPONSIBLE FOR PROPER HANDLING AND DISPOSAL OF LEAD-CONTAINING WASTE.

C. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THEIR EMPLOYEES AND SUBCONTRACTORS OF THE PRESENCE AND LOCATIONS OF LEAD-CONTAINING MATERIALS, AND TO WARN THEIR EMPLOYEES AND SUBCONTRACTORS OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF LEAD-CONTAINING MATERIALS.

D. CONTRACTORS ARE HEREBY NOTIFIED THAT SOME LEAD-CONTAINING BUILDING MATERIALS HAVE BEEN IDENTIFIED AND MAY BE DISTURBED DURING COMPLETION OF THE WORK ON THIS PROJECT. INFORMATION ON LEAD-CONTAINING MATERIALS IS INCLUDED IN THE "LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION" REPORT ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.

ASBESTOS REMOVAL NOTES:

H1 REMOVE FROM THE AREAS INDICATED FIBERGLASS PIPE INSULATION AND ASBESTOS-CONTAINING MUDDED JOINT PACKING IN ITS ENTIRETY. JOINT PACKING AND ASSOCIATED MATERIALS SHALL BE DISPOSED OF AS AN ACM. SEE MECHANICAL DRAWINGS FOR EXACT REMOVAL LIMITS.



1 H102 2ND FLOOR HAZARDOUS MATERIAL REMOVAL PLAN
1/16" = 1'-0"

12/19/2023 4:56:44 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

GIDNEY AVENUE ELEMENTARY SCHOOL
300 GIDNEY AVENUE
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-006-015

PROJECT NUMBER: 2233600
DRAWN BY: CS
REVIEWED BY: CH
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR HAZARDOUS MATERIAL REMOVAL PLAN

DRAWING NUMBER:

H102

LEGEND

NO WORK IN THIS AREA

1 A100 BASEMENT FLOOR PLAN

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

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

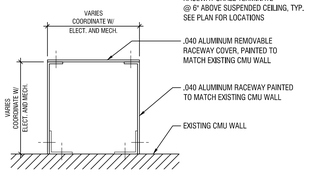
ISSUED FOR: BID

DATE: 11/12/2024

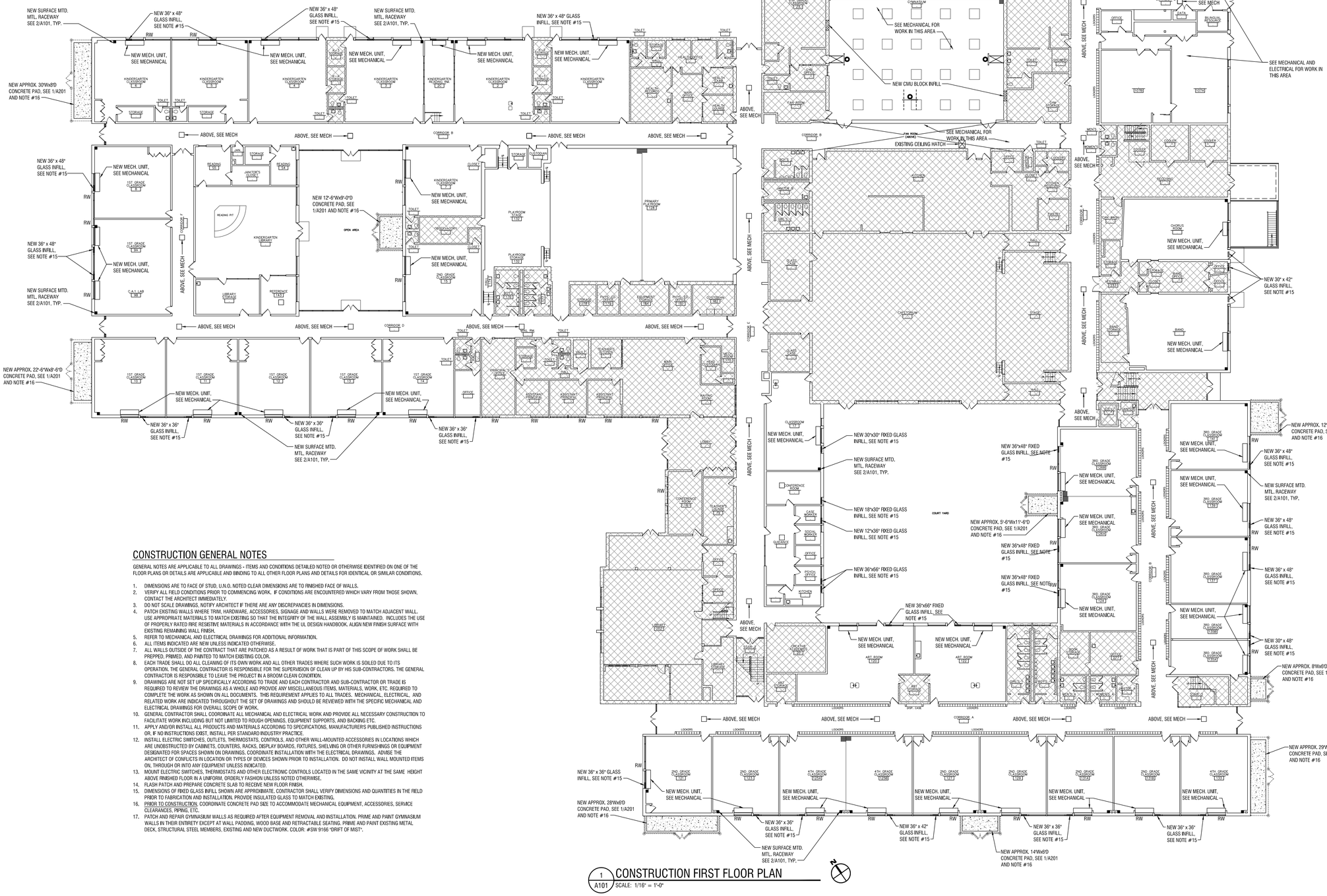
DRAWING NAME: BASEMENT FLOOR PLAN

DRAWING NUMBER: A100

11/5/2024 11:18:53 AM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Meadow Hill Gem School\2233600 MHGS A100 BASEMENT FLOOR PLAN.dwg



3 A101 PLAN DETAIL: ALUMINUM RACEWAY
SCALE: 1 1/2" = 1'-0"



1 A101 CONSTRUCTION FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

CONSTRUCTION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. DIMENSIONS ARE TO FACE OF STUD, U.N.O. NOTED CLEAR DIMENSIONS ARE TO FINISHED FACE OF WALLS.
2. VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCING WORK. IF CONDITIONS ARE ENCOUNTERED WHICH VARY FROM THOSE SHOWN, CONTACT THE ARCHITECT IMMEDIATELY.
3. DO NOT SCALE DRAWINGS, NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES IN DIMENSIONS.
4. PATCH EXISTING WALLS WHERE TRIM, HARDWARE, ACCESSORIES, SIGNAGE AND WALLS WERE REMOVED TO MATCH ADJACENT WALL. USE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. INCLUDES THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS IN ACCORDANCE WITH THE UL DESIGN HANDBOOK. ALIGN NEW FINISH SURFACE WITH EXISTING REMAINING WALL FINISH.
5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL ITEMS INDICATED ARE NEW UNLESS INDICATED OTHERWISE.
7. ALL WALLS OUTSIDE OF THE CONTRACT THAT ARE PATCHED AS A RESULT OF WORK THAT IS PART OF THIS SCOPE OF WORK SHALL BE PREPPED, PRIMED, AND PAINTED TO MATCH EXISTING COLOR.
8. EACH TRADE SHALL DO ALL CLEANING OF ITS OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO ITS OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUB-CONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
9. DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISCELLANEOUS ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. MECHANICAL, ELECTRICAL, AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MECHANICAL AND ELECTRICAL DRAWINGS FOR OVERALL SCOPE OF WORK.
10. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING ETC.
11. APPLY AND/OR INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO SPECIFICATIONS, MANUFACTURER'S PUBLISHED INSTRUCTIONS OR, IF NO INSTRUCTIONS EXIST, INSTALL PER STANDARD INDUSTRY PRACTICE.
12. INSTALL ELECTRIC SWITCHES, OUTLETS, THERMOSTATS, CONTROLS, AND OTHER WALL-MOUNTED ACCESSORIES IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, DISPLAY BOARDS, FIXTURES, SHELVING OR OTHER FURNISHINGS OR EQUIPMENT DESIGNATED FOR SPACES SHOWN ON DRAWINGS. COORDINATE INSTALLATION WITH THE ELECTRICAL DRAWINGS. ADVISE THE ARCHITECT OF CONFLICTS IN LOCATION OR TYPES OF DEVICES SHOWN PRIOR TO INSTALLATION. DO NOT INSTALL WALL MOUNTED ITEMS ON, THROUGH OR INTO ANY EQUIPMENT UNLESS INDICATED.
13. MOUNT ELECTRIC SWITCHES, THERMOSTATS AND OTHER ELECTRONIC CONTROLS LOCATED IN THE SAME VICINITY AT THE SAME HEIGHT ABOVE FINISHED FLOOR IN A UNIFORM, ORDERLY FASHION UNLESS NOTED OTHERWISE.
14. FLASH PATCH AND PREPARE CONCRETE SLAB TO RECEIVE NEW FLOOR FINISH.
15. DIMENSIONS OF FIXED GLASS INFILL SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY DIMENSIONS AND QUANTITIES IN THE FIELD PRIOR TO FABRICATION AND INSTALLATION. PROVIDE INSULATED GLASS TO MATCH EXISTING.
16. PRIOR TO CONSTRUCTION, COORDINATE CONCRETE PAD SIZE TO ACCOMMODATE MECHANICAL EQUIPMENT, ACCESSORIES, SERVICE CLEARANCES, PIPING, ETC.
17. PATCH AND REPAIR GYMNASIUM WALLS AS REQUIRED AFTER EQUIPMENT REMOVAL AND INSTALLATION. PRIME AND PAINT GYMNASIUM WALLS IN THEIR ENTIRETY EXCEPT AT WALL PADDING, WOOD BASE AND RETRACTABLE SEATING. PRIME AND PAINT EXISTING METAL DECK, STRUCTURAL STEEL MEMBERS, EXISTING AND NEW DUCTWORK. COLOR: #SW 9166 "DRIFT OF MIST".

LEGEND

NO WORK IN THIS AREA

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION
EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

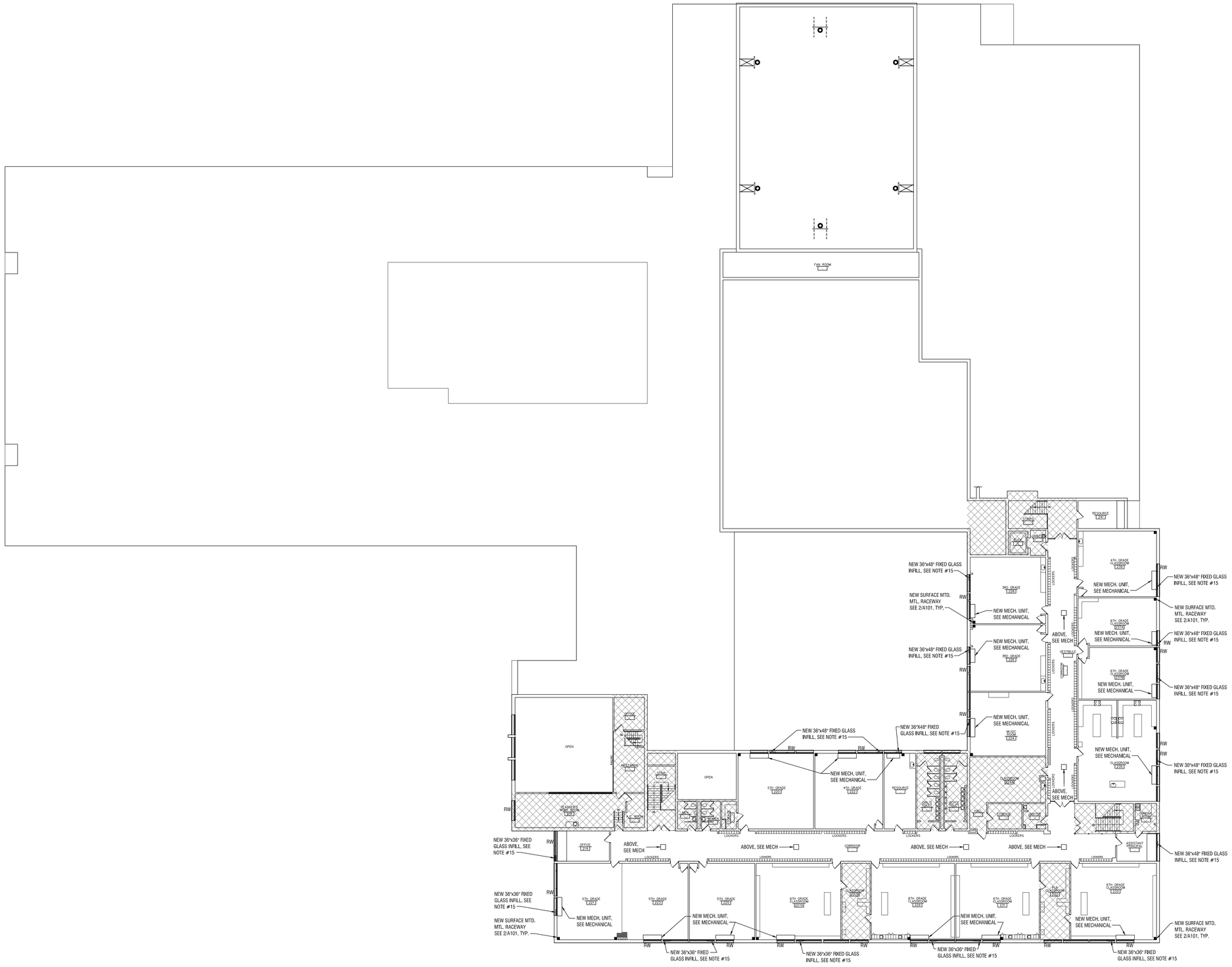
SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600
DRAWN BY: JR
REVIEWED BY: PM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: CONSTRUCTION FIRST FLOOR PLAN
DRAWING NUMBER: A101

11/5/2024 11:29:26 AM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Meadow Hill Gem School\2233600 MHGS A101 FIRST FLOOR PLAN.dwg

LEGEND

NO WORK IN THIS AREA



1 A102 CONSTRUCTION SECOND FLOOR PLAN

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

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

CONSTRUCTION SECOND FLOOR PLAN

DRAWING NUMBER:

A102

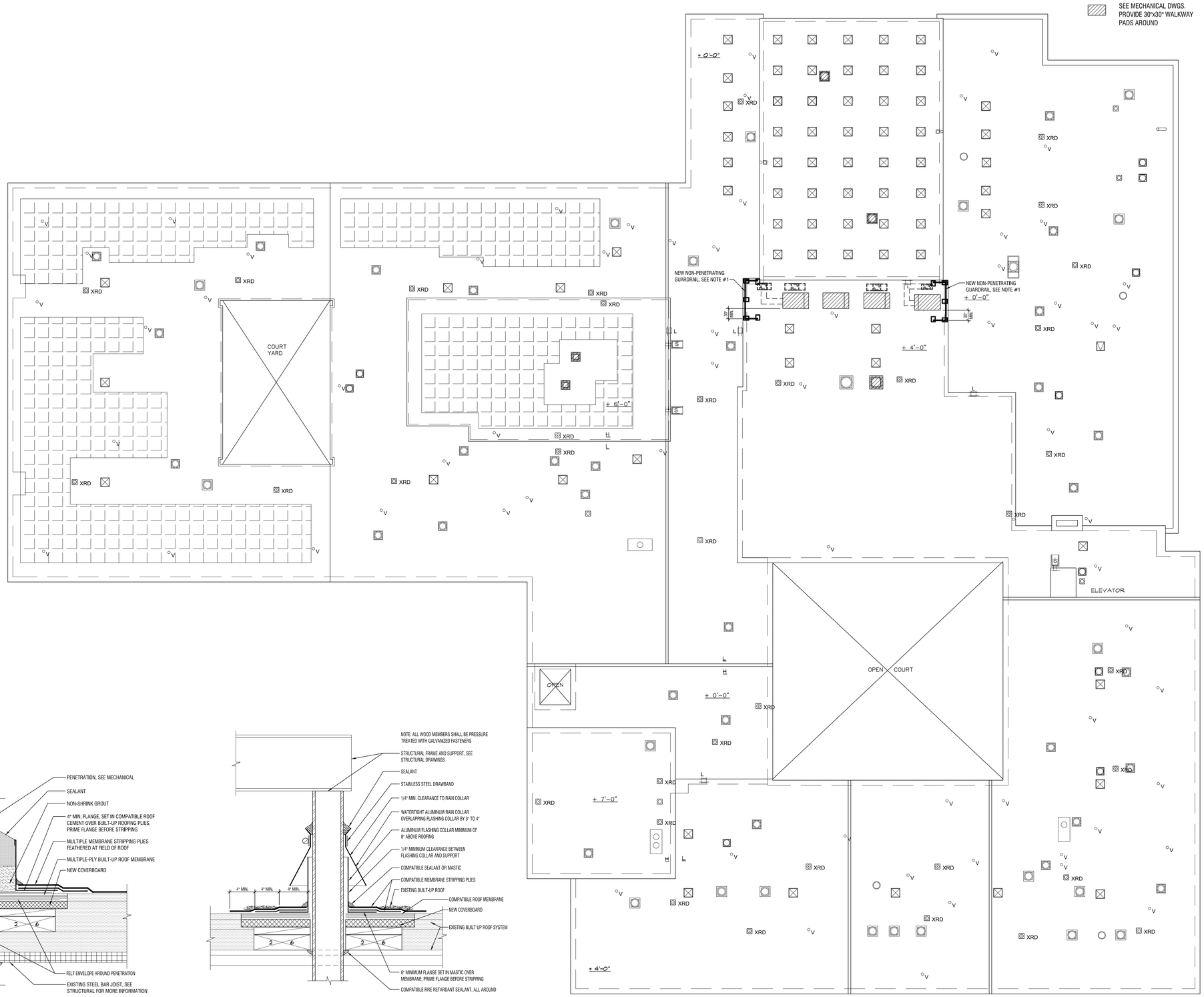
11/5/2024 11:23:20 AM
B:\01_GRAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Meadow Hill Gem School\2233600 MHGS A102 SECOND FLOOR PLAN.dwg

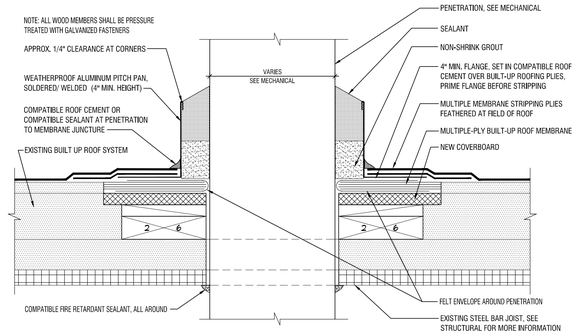
NOTES

1. NEW NON-PENETRATING GUARDRAIL AND ASSOCIATED COMPONENTS BY SAFEPRO SAFETY PRODUCTS OR APPROVED EQUAL. SEE SPECIFICATIONS.

LEGEND

- EXISTING MECH. EQUIPMENT
- EXISTING SKYLIGHT
- EXISTING SOLAR PANELS
- NEW MECH. EQUIPMENT SEE MECHANICAL DWGS. PROVIDE 30"x30" WALKWAY PADS AROUND





3 A103 PENETRATION POCKET DETAIL
SCALE: 3" = 1'-0"

2 A103 EQUIPMENT STRUCTURAL SUPPORT PENETRATION
SCALE: 3" = 1'-0"

1 A103 ROOF PLAN
SCALE: 1/16" = 1'-0"

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

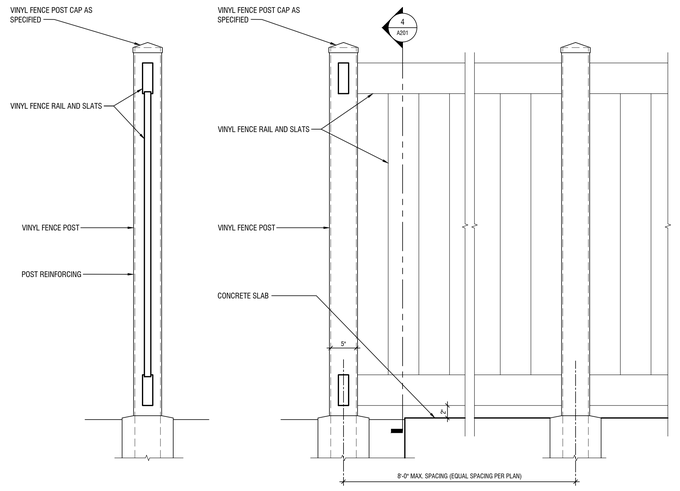
DRAWING NAME:

ROOF PLAN AND ROOF DETAILS

DRAWING NUMBER:

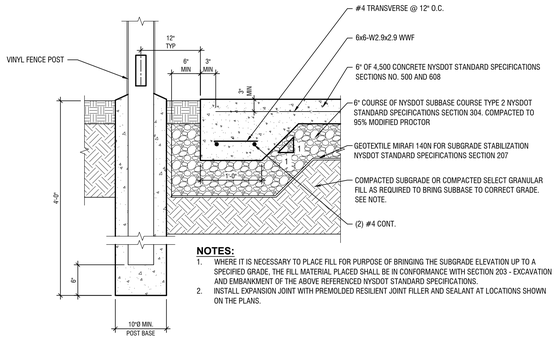
A103

11/5/2024 11:34:19 AM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Meadow Hill Gem School\2233600 MHGS A103 ROOF PLAN.dwg



4 A201 FENCE SECTION
1 1/2" = 1'-0"

3 A201 FENCE ELEVATION
1 1/2" = 1'-0"

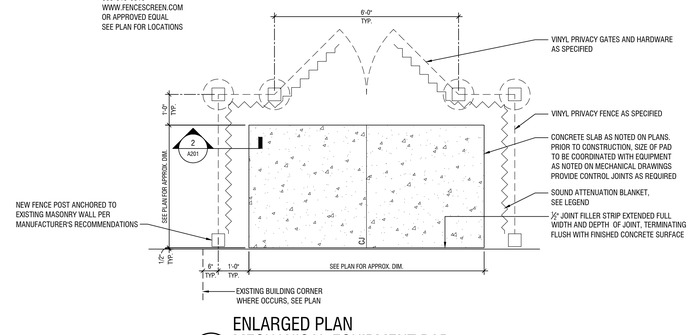


NOTES:
1. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203 - EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
2. INSTALL EXPANSION JOINT WITH PREMOLDED RESILIENT JOINT FILLER AND SEALANT AT LOCATIONS SHOWN ON THE PLANS.

2 A201 SECTION @ CONCRETE PAD
SCALE: NTS

LEGEND

SOUND ATTENUATION BLANKET BASIS OF DESIGN:
SOUNDBLOCK ACOUSTIC FENCE PANELS
MODEL #850 SERIES SOUNDBLOCK BY FENCESCREEN, INC.
COLOR: BLACK
888-313-6313
WWW.FENCESCREEN.COM
OR APPROVED EQUAL
SEE PLAN FOR LOCATIONS



1 A201 ENLARGED PLAN
MECHANICAL EQUIPMENT PAD
SCALE: 1/2" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017876
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600
DRAWN BY: JR
REVIEWED BY: PM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

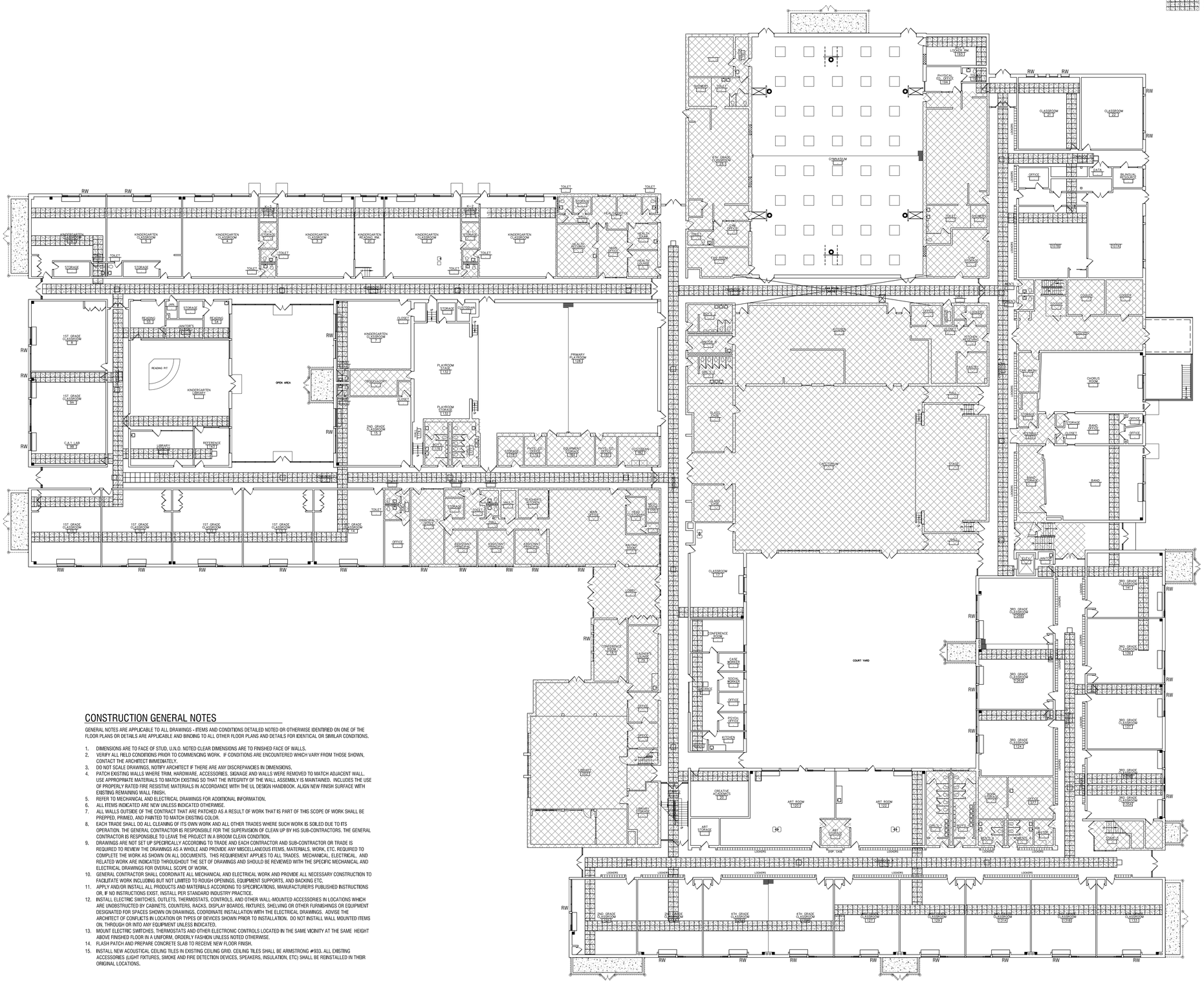
DETAILS

DRAWING NUMBER:

A201

LEGEND

▨	NO WORK IN THIS AREA
▦	NEW ACOUSTICAL CLG. TILES INSTALLED IN EXISTING CEILING GRID SEE NOTE #15



1
A301
CONSTRUCTION FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

CONSTRUCTION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. DIMENSIONS ARE TO FACE OF STUD, U.N.O. NOTED CLEAR DIMENSIONS ARE TO FINISHED FACE OF WALLS.
2. VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCING WORK. IF CONDITIONS ARE ENCOUNTERED WHICH VARY FROM THOSE SHOWN, CONTACT THE ARCHITECT IMMEDIATELY.
3. DO NOT SCALE DRAWINGS, NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES IN DIMENSIONS.
4. PATCH EXISTING WALLS WHERE TRIM, HARDWARE, ACCESSORIES, SIGNAGE AND WALLS WERE REMOVED TO MATCH ADJACENT WALL. USE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. INCLUDES THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS IN ACCORDANCE WITH THE UL DESIGN HANDBOOK. ALIGN NEW FINISH SURFACE WITH EXISTING REMAINING WALL FINISH.
5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL ITEMS INDICATED ARE NEW UNLESS INDICATED OTHERWISE.
7. ALL WALLS OUTSIDE OF THE CONTRACT THAT ARE PATCHED AS A RESULT OF WORK THAT IS PART OF THIS SCOPE OF WORK SHALL BE PREPPED, PRIMED, AND PAINTED TO MATCH EXISTING COLOR.
8. EACH TRADE SHALL DO ALL CLEANING OF ITS OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO ITS OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUB-CONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
9. DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISCELLANEOUS ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. MECHANICAL, ELECTRICAL, AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MECHANICAL AND ELECTRICAL DRAWINGS FOR OVERALL SCOPE OF WORK.
10. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING ETC.
11. APPLY AND/OR INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO SPECIFICATIONS, MANUFACTURER'S PUBLISHED INSTRUCTIONS OR, IF NO INSTRUCTIONS EXIST, INSTALL PER STANDARD INDUSTRY PRACTICE.
12. INSTALL ELECTRIC SWITCHES, OUTLETS, THERMOSTATS, CONTROLS, AND OTHER WALL-MOUNTED ACCESSORIES IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, DISPLAY BOARDS, FIXTURES, SHELVING OR OTHER FURNISHINGS OR EQUIPMENT DESIGNATED FOR SPACES SHOWN ON DRAWINGS. COORDINATE INSTALLATION WITH THE ELECTRICAL DRAWINGS. ADVISE THE ARCHITECT OF CONFLICTS IN LOCATION OR TYPES OF DEVICES SHOWN PRIOR TO INSTALLATION. DO NOT INSTALL WALL MOUNTED ITEMS ON, THROUGH OR INTO ANY EQUIPMENT UNLESS INDICATED.
13. MOUNT ELECTRIC SWITCHES, THERMOSTATS AND OTHER ELECTRONIC CONTROLS LOCATED IN THE SAME VICINITY AT THE SAME HEIGHT ABOVE FINISHED FLOOR IN A UNIFORM, ORDERLY FASHION UNLESS NOTED OTHERWISE.
14. FLASH PATCH AND PREPARE CONCRETE SLAB TO RECEIVE NEW FLOOR FINISH.
15. INSTALL NEW ACOUSTICAL CEILING TILES IN EXISTING CEILING GRID. CEILING TILES SHALL BE ARMSTRONG #933. ALL EXISTING ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, INSULATION, ETC) SHALL BE REINSTALLED IN THEIR ORIGINAL LOCATIONS.

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP:
EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:

Revisions

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER:
2233600

DRAWN BY:
JR
REVIEWED BY:
PM

ISSUED FOR:
BID

DATE:
11/12/2024

DRAWING NAME:

CONSTRUCTION
FIRST FLOOR
REFLECTED CEILING PLAN

DRAWING NUMBER:

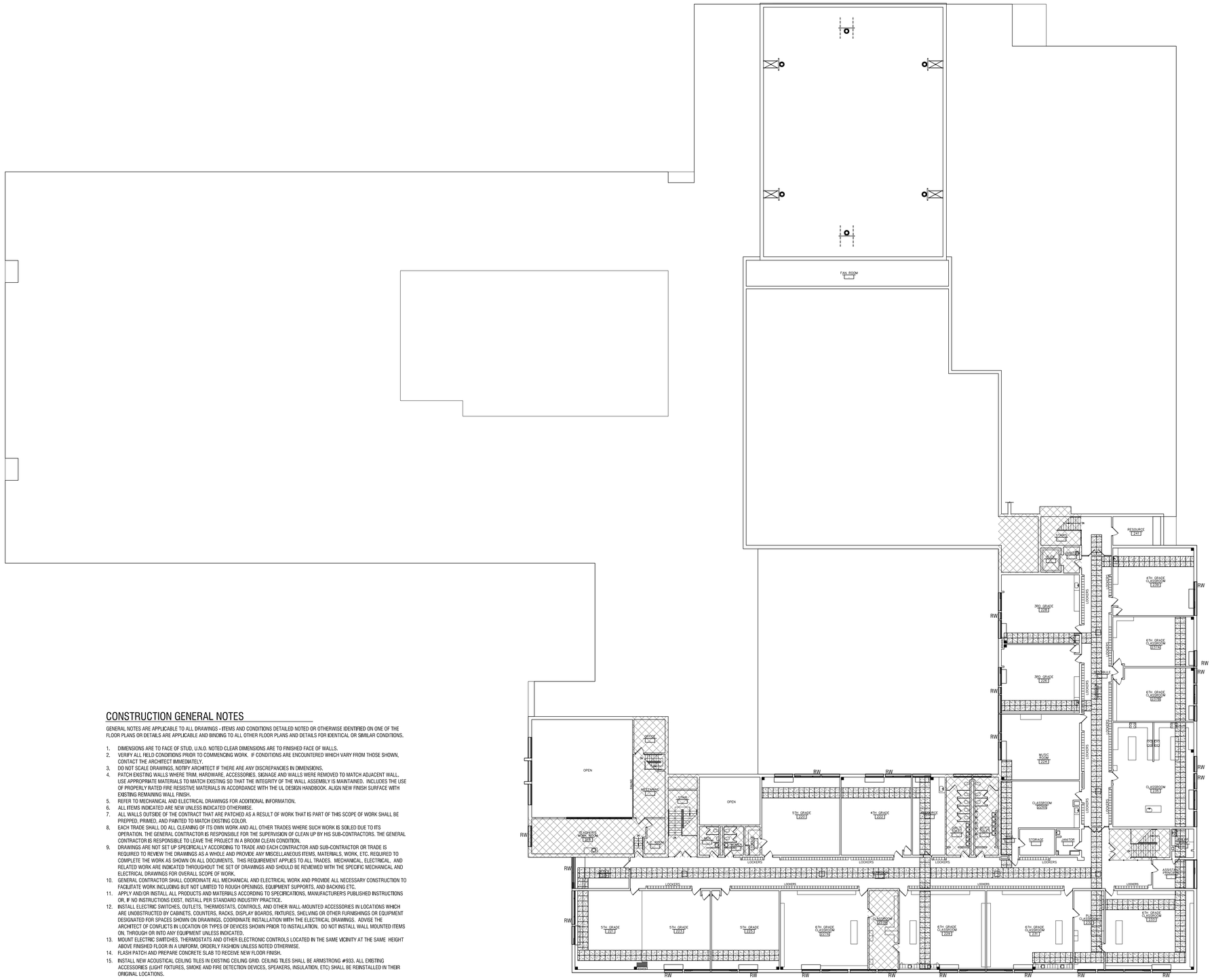
A301

11/5/2024 11:48:25 AM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Meadow Hill Gem School\2233600 MHGS A301 FIRST FLOOR RCP.dwg

LEGEND

NO WORK IN THIS AREA

NEW ACOUSTICAL CLG. TILES INSTALLED IN EXISTING CEILING GRID, SEE NOTE #15



CONSTRUCTION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. DIMENSIONS ARE TO FACE OF STUD, U.N.O. NOTED CLEAR DIMENSIONS ARE TO FINISHED FACE OF WALLS.
2. VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCING WORK. IF CONDITIONS ARE ENCOUNTERED WHICH VARY FROM THOSE SHOWN, CONTACT THE ARCHITECT IMMEDIATELY.
3. DO NOT SCALE DRAWINGS, NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES IN DIMENSIONS.
4. PATCH EXISTING WALLS WHERE TRIM, HARDWARE, ACCESSORIES, SIGNAGE AND WALLS WERE REMOVED TO MATCH ADJACENT WALL. USE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. INCLUDES THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS IN ACCORDANCE WITH THE UL DESIGN HANDBOOK. ALIGN NEW FINISH SURFACE WITH EXISTING REMAINING WALL FINISH.
5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL ITEMS INDICATED ARE NEW UNLESS INDICATED OTHERWISE.
7. ALL WALLS OUTSIDE OF THE CONTRACT THAT ARE PATCHED AS A RESULT OF WORK THAT IS PART OF THIS SCOPE OF WORK SHALL BE PREPPED, PRIMED, AND PAINTED TO MATCH EXISTING COLOR.
8. EACH TRADE SHALL DO ALL CLEANING OF ITS OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO ITS OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUB-CONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
9. DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISCELLANEOUS ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. MECHANICAL, ELECTRICAL, AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MECHANICAL AND ELECTRICAL DRAWINGS FOR OVERALL SCOPE OF WORK.
10. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING ETC.
11. APPLY AND/OR INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO SPECIFICATIONS, MANUFACTURER'S PUBLISHED INSTRUCTIONS OR, IF NO INSTRUCTIONS EXIST, INSTALL PER STANDARD INDUSTRY PRACTICE.
12. INSTALL ELECTRIC SWITCHES, OUTLETS, THERMOSTATS, CONTROLS, AND OTHER WALL-MOUNTED ACCESSORIES IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, DISPLAY BOARDS, FIXTURES, SHELVING OR OTHER FURNISHINGS OR EQUIPMENT DESIGNATED FOR SPACES SHOWN ON DRAWINGS. COORDINATE INSTALLATION WITH THE ELECTRICAL DRAWINGS. ADVISE THE ARCHITECT OF CONFLICTS IN LOCATION OR TYPES OF DEVICES SHOWN PRIOR TO INSTALLATION. DO NOT INSTALL WALL MOUNTED ITEMS ON, THROUGH OR INTO ANY EQUIPMENT UNLESS INDICATED.
13. MOUNT ELECTRIC SWITCHES, THERMOSTATS AND OTHER ELECTRONIC CONTROLS LOCATED IN THE SAME VICINITY AT THE SAME HEIGHT ABOVE FINISHED FLOOR IN A UNIFORM, ORDERLY FASHION UNLESS NOTED OTHERWISE.
14. FLASH PATCH AND PREPARE CONCRETE SLAB TO RECEIVE NEW FLOOR FINISH.
15. INSTALL NEW ACOUSTICAL CEILING TILES IN EXISTING CEILING GRID. CEILING TILES SHALL BE ARMSTRONG #933. ALL EXISTING ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, INSULATION, ETC) SHALL BE REINSTALLED IN THEIR ORIGINAL LOCATIONS.

1 A102 CONSTRUCTION SECOND FLOOR PLAN
SCALE: 1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

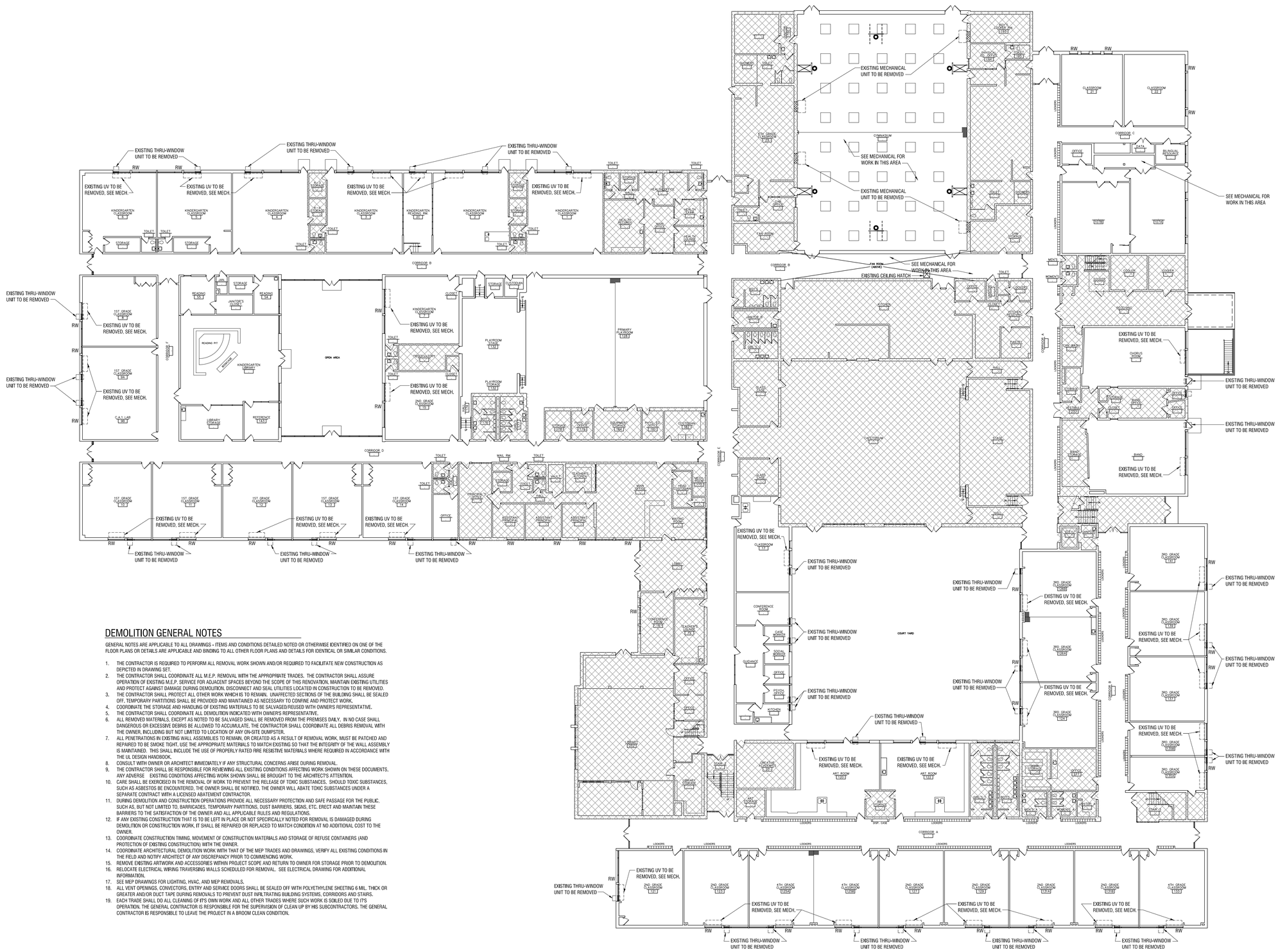
DATE: 11/12/2024

DRAWING NAME:

CONSTRUCTION SECOND FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER:

A302



DEMOLITION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. THE CONTRACTOR IS REQUIRED TO PERFORM ALL REMOVAL WORK SHOWN AND/OR REQUIRED TO FACILITATE NEW CONSTRUCTION AS DEPICTED IN DRAWING SET.
2. THE CONTRACTOR SHALL COORDINATE ALL M.E.P. REMOVAL WITH THE APPROPRIATE TRADES. THE CONTRACTOR SHALL ASSURE OPERATION OF EXISTING M.E.P. SERVICE FOR ADJACENT SPACES BEYOND THE SCOPE OF THIS RENOVATION, MAINTAIN EXISTING UTILITIES AND PROTECT AGAINST DAMAGE DURING DEMOLITION, DISCONNECT AND SEAL UTILITIES LOCATED IN CONSTRUCTION TO BE REMOVED.
3. THE CONTRACTOR SHALL PROTECT ALL OTHER WORK WHICH IS TO REMAIN. UNAFFECTED SECTIONS OF THE BUILDING SHALL BE SEALED OFF. TEMPORARY PARTITIONS SHALL BE PROVIDED AND MAINTAINED AS NECESSARY TO CONFINE AND PROTECT WORK.
4. COORDINATE THE STORAGE AND HANDLING OF EXISTING MATERIALS TO BE SALVAGED/REUSED WITH OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION INDICATED WITH OWNER'S REPRESENTATIVE.
6. ALL REMOVED MATERIALS, EXCEPT AS NOTED TO BE SALVAGED SHALL BE REMOVED FROM THE PREMISES DAILY. IN NO CASE SHALL DANGEROUS OR EXCESSIVE DEBRIS BE ALLOWED TO ACCUMULATE. THE CONTRACTOR SHALL COORDINATE ALL DEBRIS REMOVAL WITH THE OWNER, INCLUDING BUT NOT LIMITED TO LOCATION OF ANY ON-SITE DUMPSTER.
7. ALL PENETRATIONS IN EXISTING WALL ASSEMBLIES TO REMAIN, OR CREATED AS A RESULT OF REMOVAL WORK, MUST BE PATCHED AND REPAIRED TO BE SMOKE TIGHT, USE THE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. THIS SHALL INCLUDE THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS WHERE REQUIRED IN ACCORDANCE WITH THE UL DESIGN HANDBOOK.
8. CONSULT WITH OWNER OR ARCHITECT IMMEDIATELY IF ANY STRUCTURAL CONCERNS ARISE DURING REMOVAL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING CONDITIONS AFFECTING WORK SHOWN ON THESE DOCUMENTS, ANY ADVERSE EXISTING CONDITIONS AFFECTING WORK SHOWN SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
10. CARE SHALL BE EXERCISED IN THE REMOVAL OF WORK TO PREVENT THE RELEASE OF TOXIC SUBSTANCES. SHOULD TOXIC SUBSTANCES, SUCH AS ASBESTOS BE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED. THE OWNER WILL ABATE TOXIC SUBSTANCES UNDER A SEPARATE CONTRACT WITH A LICENSED ABATEMENT CONTRACTOR.
11. DURING DEMOLITION AND CONSTRUCTION OPERATIONS PROVIDE ALL NECESSARY PROTECTION AND SAFE PASSAGE FOR THE PUBLIC, SUCH AS, BUT NOT LIMITED TO, BARRICADES, TEMPORARY PARTITIONS, DUST BARRIERS, SIGNS, ETC. ERECT AND MAINTAIN THESE BARRIERS TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE RULES AND REGULATIONS.
12. IF ANY EXISTING CONSTRUCTION THAT IS TO BE LEFT IN PLACE OR NOT SPECIFICALLY NOTED FOR REMOVAL IS DAMAGED DURING DEMOLITION OR CONSTRUCTION WORK, IT SHALL BE REPAIRED OR REPLACED TO MATCH CONDITION AT NO ADDITIONAL COST TO THE OWNER.
13. COORDINATE CONSTRUCTION TIMING, MOVEMENT OF CONSTRUCTION MATERIALS AND STORAGE OF REFUSE CONTAINERS (AND PROTECTION OF EXISTING CONSTRUCTION) WITH THE OWNER.
14. COORDINATE ARCHITECTURAL DEMOLITION WORK WITH THAT OF THE MEP TRADES AND DRAWINGS, VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO COMMENCING WORK.
15. REMOVE EXISTING ARTWORK AND ACCESSORIES WITHIN PROJECT SCOPE AND RETURN TO OWNER FOR STORAGE PRIOR TO DEMOLITION.
16. RELOCATE ELECTRICAL WIRING TRAVERSING WALLS SCHEDULED FOR REMOVAL. SEE ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
17. SEE MEP DRAWINGS FOR LIGHTING, HVAC, AND MEP REMOVALS.
18. ALL VENT OPENINGS, CONVECTORS, ENTRY AND SERVICE DOORS SHALL BE SEALED OFF WITH POLYETHYLENE SHEETING 6 MIL. THICK OR GREATER AND/OR DUCT TAPE DURING REMOVALS TO PREVENT DUST INFILTRATING BUILDING SYSTEMS, CORRIDORS AND STAIRS.
19. EACH TRADE SHALL DO ALL CLEANING OF IT'S OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO IT'S OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUBCONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.

1 AD101 DEMOLITION FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION
EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600
DRAWN BY: JR
REVIEWED BY: PM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

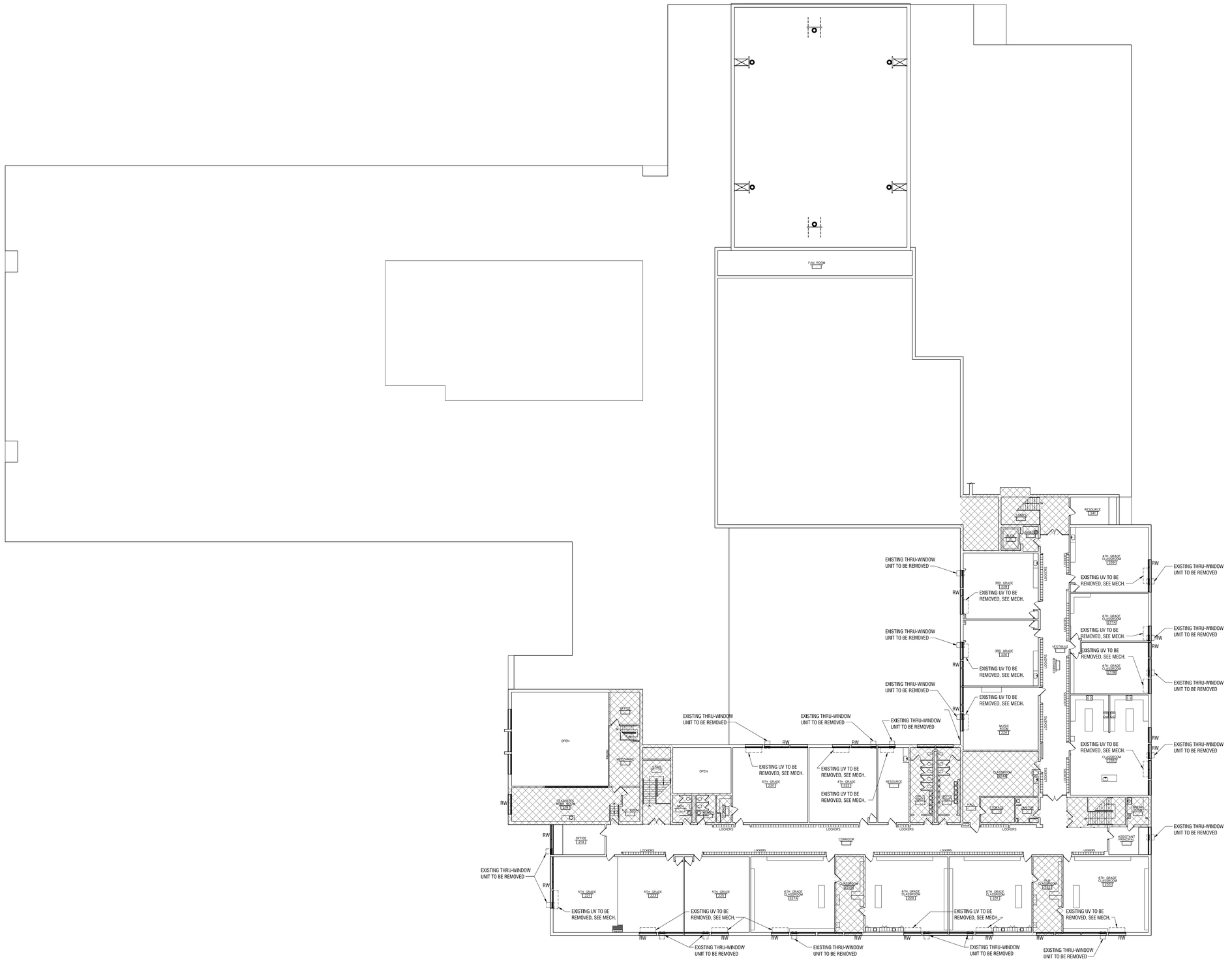
DEMOLITION FIRST FLOOR PLAN

DRAWING NUMBER:

AD101

LEGEND

NO WORK IN THIS AREA



1 AD102 DEMOLITION SECOND FLOOR PLAN

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

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

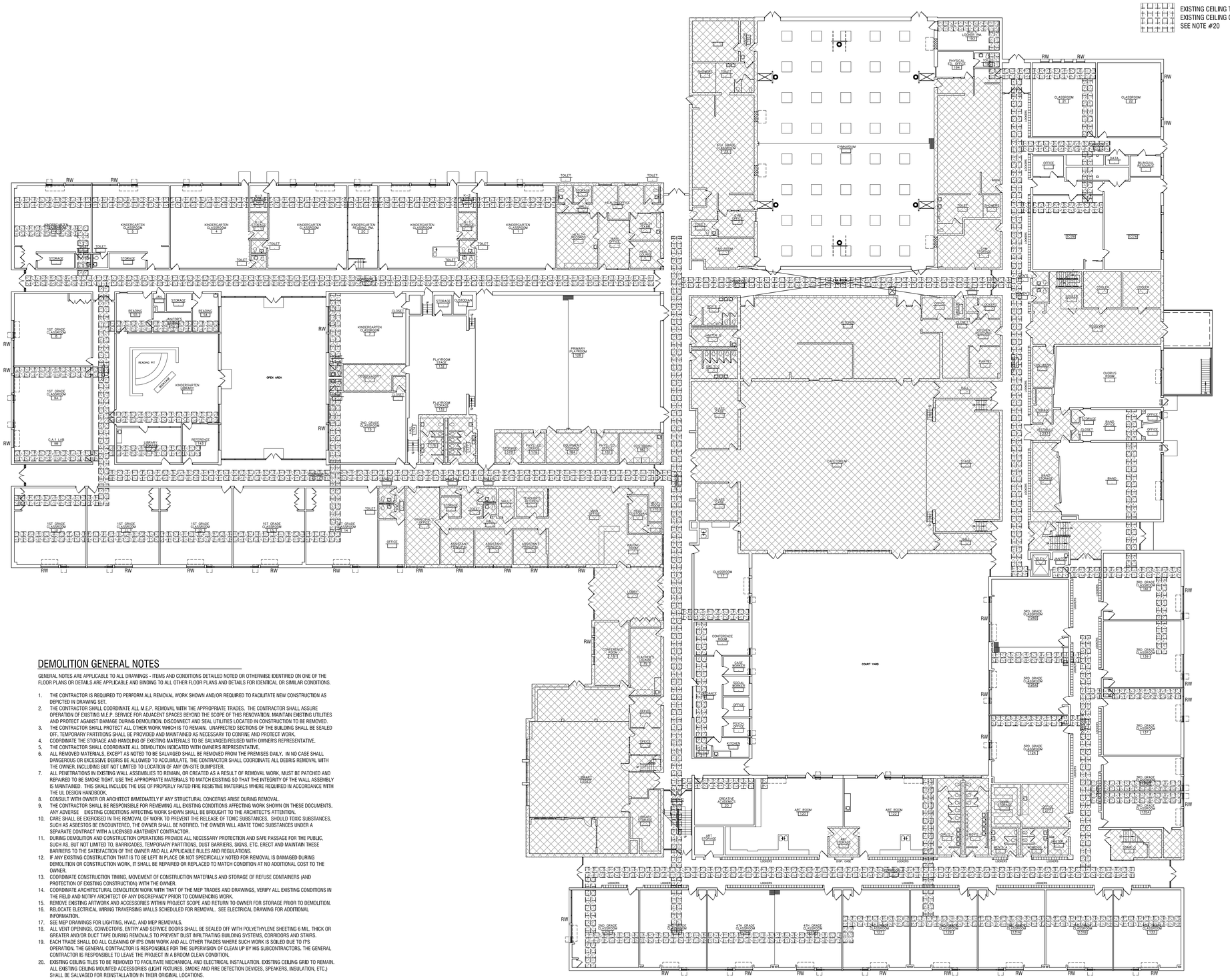
DATE: 11/12/2024

DRAWING NAME:

DEMOLITION SECOND FLOOR PLAN

DRAWING NUMBER:

AD102



DEMOLITION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. THE CONTRACTOR IS REQUIRED TO PERFORM ALL REMOVAL WORK SHOWN AND/OR REQUIRED TO FACILITATE NEW CONSTRUCTION AS DEPICTED IN DRAWING SET.
2. THE CONTRACTOR SHALL COORDINATE ALL M.E.P. REMOVAL WITH THE APPROPRIATE TRADES. THE CONTRACTOR SHALL ASSURE OPERATION OF EXISTING M.E.P. SERVICE FOR ADJACENT SPACES BEYOND THE SCOPE OF THIS RENOVATION, MAINTAIN EXISTING UTILITIES AND PROTECT AGAINST DAMAGE DURING DEMOLITION, DISCONNECT AND SEAL UTILITIES LOCATED IN CONSTRUCTION TO BE REMOVED.
3. THE CONTRACTOR SHALL PROTECT ALL OTHER WORK WHICH IS TO REMAIN. UNAFFECTED SECTIONS OF THE BUILDING SHALL BE SEALED OFF. TEMPORARY PARTITIONS SHALL BE PROVIDED AND MAINTAINED AS NECESSARY TO CONFINE AND PROTECT WORK.
4. COORDINATE THE STORAGE AND HANDLING OF EXISTING MATERIALS TO BE SALVAGED/REUSED WITH OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION INDICATED WITH OWNER'S REPRESENTATIVE.
6. ALL REMOVED MATERIALS, EXCEPT AS NOTED TO BE SALVAGED SHALL BE REMOVED FROM THE PREMISES DAILY. IN NO CASE SHALL DANGEROUS OR EXCESSIVE DEBRIS BE ALLOWED TO ACCUMULATE, THE CONTRACTOR SHALL COORDINATE ALL DEBRIS REMOVAL WITH THE OWNER, INCLUDING BUT NOT LIMITED TO LOCATION OF ANY ON-SITE DUMPSTER.
7. ALL PENETRATIONS IN EXISTING WALL ASSEMBLIES TO REMAIN, OR CREATED AS A RESULT OF REMOVAL WORK, MUST BE PATCHED AND REPAIRED TO BE SMOKE TIGHT. USE THE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. THIS SHALL INCLUDE THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS WHERE REQUIRED IN ACCORDANCE WITH THE UL DESIGN HANDBOOK.
8. CONSULT WITH OWNER OR ARCHITECT IMMEDIATELY IF ANY STRUCTURAL CONCERNS ARISE DURING REMOVAL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING CONDITIONS AFFECTING WORK SHOWN ON THESE DOCUMENTS, ANY ADVERSE EXISTING CONDITIONS AFFECTING WORK SHOWN SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
10. CARE SHALL BE EXERCISED IN THE REMOVAL OF WORK TO PREVENT THE RELEASE OF TOXIC SUBSTANCES. SHOULD TOXIC SUBSTANCES, SUCH AS ASBESTOS BE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED. THE OWNER WILL ABATE TOXIC SUBSTANCES UNDER A SEPARATE CONTRACT WITH A LICENSED ABATEMENT CONTRACTOR.
11. DURING DEMOLITION AND CONSTRUCTION OPERATIONS PROVIDE ALL NECESSARY PROTECTION AND SAFE PASSAGE FOR THE PUBLIC, SUCH AS, BUT NOT LIMITED TO, BARRICADES, TEMPORARY PARTITIONS, DUST BARRIERS, SIGNS, ETC. ERECT AND MAINTAIN THESE BARRIERS TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE RULES AND REGULATIONS.
12. IF ANY EXISTING CONSTRUCTION THAT IS TO BE LEFT IN PLACE OR NOT SPECIFICALLY NOTED FOR REMOVAL IS DAMAGED DURING DEMOLITION OR CONSTRUCTION WORK, IT SHALL BE REPAIRED OR REPLACED TO MATCH CONDITION AT NO ADDITIONAL COST TO THE OWNER.
13. COORDINATE CONSTRUCTION TIMING, MOVEMENT OF CONSTRUCTION MATERIALS AND STORAGE OF REFUSE CONTAINERS (AND PROTECTION OF EXISTING CONSTRUCTION) WITH THE OWNER.
14. COORDINATE ARCHITECTURAL DEMOLITION WORK WITH THAT OF THE MEP TRADES AND DRAWINGS, VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO COMMENCING WORK.
15. REMOVE EXISTING ARTWORK AND ACCESSORIES WITHIN PROJECT SCOPE AND RETURN TO OWNER FOR STORAGE PRIOR TO DEMOLITION.
16. RELOCATE ELECTRICAL WIRING TRAVERSING WALLS SCHEDULED FOR REMOVAL. SEE ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
17. SEE MEP DRAWINGS FOR LIGHTING, HVAC, AND MEP REMOVALS.
18. ALL VENT OPENINGS, CONVECTORS, ENTRY AND SERVICE DOORS SHALL BE SEALED OFF WITH POLYETHYLENE SHEETING 6 MIL. THICK OR GREATER AND/OR DUCT TAPE DURING REMOVALS TO PREVENT DUST INFILTRATING BUILDING SYSTEMS, CORRIDORS AND STAIRS.
19. EACH TRADE SHALL DO ALL CLEANING OF IT'S OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO IT'S OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUBCONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
20. EXISTING CEILING TILES TO BE REMOVED TO FACILITATE MECHANICAL AND ELECTRICAL INSTALLATION. EXISTING CEILING GRID TO REMAIN. ALL EXISTING CEILING MOUNTED ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, INSULATION, ETC.) SHALL BE SALVAGED FOR REINSTALLATION IN THEIR ORIGINAL LOCATIONS.

1 AD301 DEMOLITION FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION
EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600
DRAWN BY: JR
REVIEWED BY: PM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

DEMOLITION FIRST FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER:

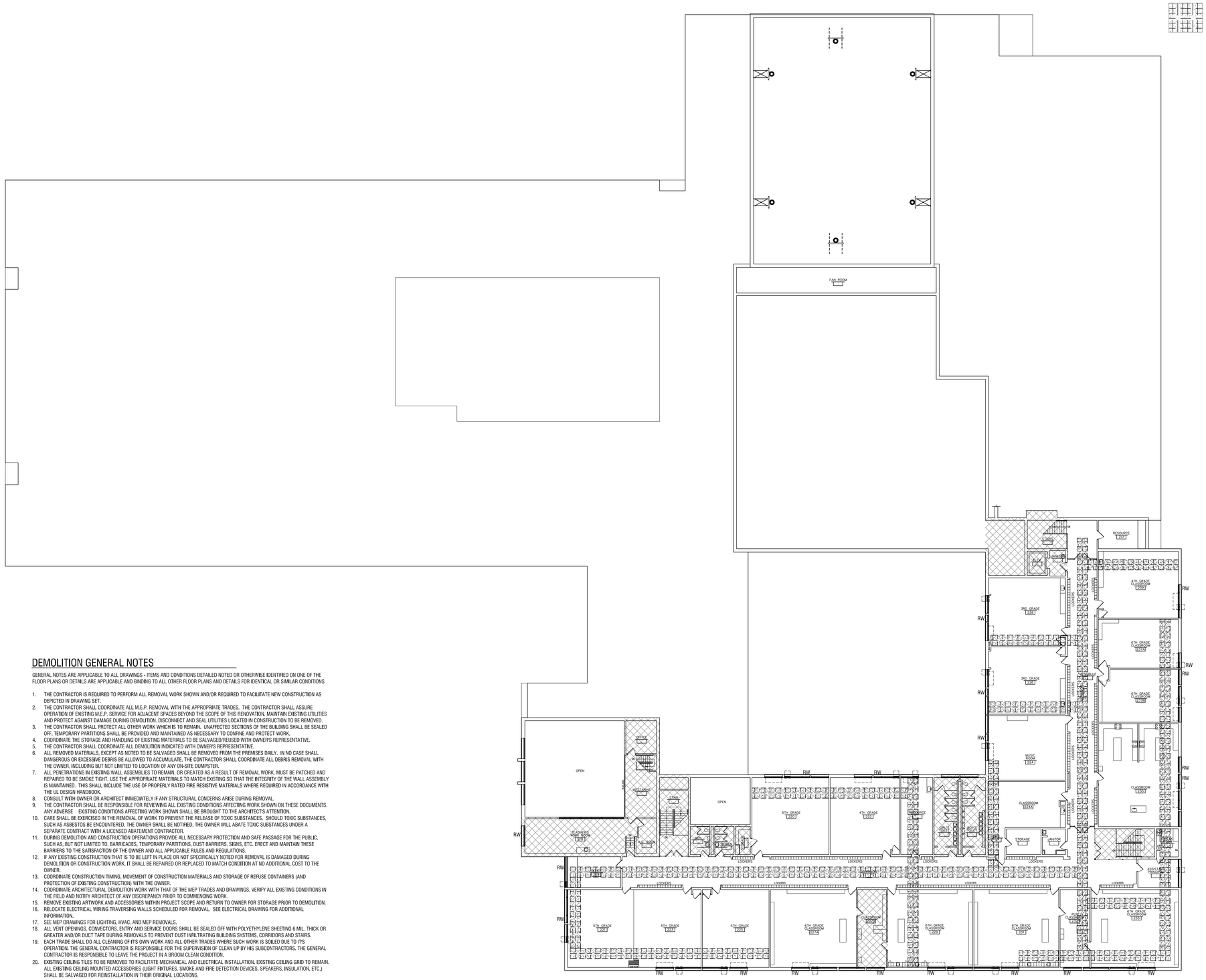
AD301

11/5/2024 2:26:41 PM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Meadow Hill Gem School\2233600 MHGS A302 SECOND FLOOR RCP.dwg

LEGEND

▨ NO WORK IN THIS AREA

⊞ EXISTING ACOUSTICAL TILES TO BE REMOVED. EXISTING CEILING GRID TO REMAIN, SEE NOTE #20



1 AD302 DEMOLITION SECOND FLOOR PLAN
SCALE: 1/16" = 1'-0"

DEMOLITION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. THE CONTRACTOR IS REQUIRED TO PERFORM ALL REMOVAL WORK SHOWN AND/OR REQUIRED TO FACILITATE NEW CONSTRUCTION AS DEPICTED IN DRAWING SET.
2. THE CONTRACTOR SHALL COORDINATE ALL M.E.P. REMOVAL WITH THE APPROPRIATE TRADES. THE CONTRACTOR SHALL ASSURE OPERATION OF EXISTING M.E.P. SERVICE FOR ADJACENT SPACES BEYOND THE SCOPE OF THIS RENOVATION. MAINTAIN EXISTING UTILITIES AND PROTECT AGAINST DAMAGE DURING DEMOLITION. DISCONNECT AND SEAL UTILITIES LOCATED IN CONSTRUCTION TO BE REMOVED.
3. THE CONTRACTOR SHALL PROTECT ALL OTHER WORK WHICH IS TO REMAIN. UNAFFECTED SECTIONS OF THE BUILDING SHALL BE SEALED OFF. TEMPORARY PARTITIONS SHALL BE PROVIDED AND MAINTAINED AS NECESSARY TO CONFINE AND PROTECT WORK.
4. COORDINATE THE STORAGE AND HANDLING OF EXISTING MATERIALS TO BE SALVAGED/REUSED WITH OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION INDICATED WITH OWNER'S REPRESENTATIVE.
6. ALL REMOVED MATERIALS, EXCEPT AS NOTED TO BE SALVAGED SHALL BE REMOVED FROM THE PREMISES DAILY. IN NO CASE SHALL DANGEROUS OR EXCESSIVE DEBRIS BE ALLOWED TO ACCUMULATE. THE CONTRACTOR SHALL COORDINATE ALL DEBRIS REMOVAL WITH THE OWNER, INCLUDING BUT NOT LIMITED TO LOCATION OF ANY ON-SITE DUMPSTER.
7. ALL PENETRATIONS IN EXISTING WALL ASSEMBLIES TO REMAIN, OR CREATED AS A RESULT OF REMOVAL WORK, MUST BE PATCHED AND REPAIRED TO BE SMOKE TIGHT. USE THE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. THIS SHALL INCLUDE THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS WHERE REQUIRED IN ACCORDANCE WITH THE UL DESIGN HANDBOOK.
8. CONSULT WITH OWNER OR ARCHITECT IMMEDIATELY IF ANY STRUCTURAL CONCERNS ARISE DURING REMOVAL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING CONDITIONS AFFECTING WORK SHOWN ON THESE DOCUMENTS. ANY ADVERSE EXISTING CONDITIONS AFFECTING WORK SHOWN SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
10. CARE SHALL BE EXERCISED IN THE REMOVAL OF WORK TO PREVENT THE RELEASE OF TOXIC SUBSTANCES. SHOULD TOXIC SUBSTANCES, SUCH AS ASBESTOS BE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED. THE OWNER WILL ABATE TOXIC SUBSTANCES UNDER A SEPARATE CONTRACT WITH A LICENSED ABATEMENT CONTRACTOR.
11. DURING DEMOLITION AND CONSTRUCTION OPERATIONS PROVIDE ALL NECESSARY PROTECTION AND SAFE PASSAGE FOR THE PUBLIC, SUCH AS, BUT NOT LIMITED TO, BARRICADES, TEMPORARY PARTITIONS, DUST BARRIERS, SIGNS, ETC. ERECT AND MAINTAIN THESE BARRIERS TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE RULES AND REGULATIONS.
12. IF ANY EXISTING CONSTRUCTION THAT IS TO BE LEFT IN PLACE OR NOT SPECIFICALLY NOTED FOR REMOVAL IS DAMAGED DURING DEMOLITION OR CONSTRUCTION WORK, IT SHALL BE REPAIRED OR REPLACED TO MATCH CONDITION AT NO ADDITIONAL COST TO THE OWNER.
13. COORDINATE CONSTRUCTION TIMING, MOVEMENT OF CONSTRUCTION MATERIALS AND STORAGE OF REFUSE CONTAINERS (AND PROTECTION OF EXISTING CONSTRUCTION) WITH THE OWNER.
14. COORDINATE ARCHITECTURAL DEMOLITION WORK WITH THAT OF THE MEP TRADES AND DRAWINGS, VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO COMMENCING WORK.
15. REMOVE EXISTING ARTWORK AND ACCESSORIES WITHIN PROJECT SCOPE AND RETURN TO OWNER FOR STORAGE PRIOR TO DEMOLITION.
16. RELOCATE ELECTRICAL WIRING TRAVERSING WALLS SCHEDULED FOR REMOVAL. SEE ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
17. SEE MEP DRAWINGS FOR LIGHTING, HVAC, AND MEP REMOVALS.
18. ALL VENT OPENINGS, CONVECTORS, ENTRY AND SERVICE DOORS SHALL BE SEALED OFF WITH POLYETHYLENE SHEETING 6 MIL. THICK OR GREATER AND/OR DUCT TAPE DURING REMOVALS TO PREVENT DUST INFILTRATING BUILDING SYSTEMS, CORRIDORS AND STAIRS.
19. EACH TRADE SHALL DO ALL CLEANING OF IT'S OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO IT'S OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUBCONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
20. EXISTING CEILING TILES TO BE REMOVED TO FACILITATE MECHANICAL AND ELECTRICAL INSTALLATION. EXISTING CEILING GRID TO REMAIN. ALL EXISTING CEILING MOUNTED ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, INSULATION, ETC.) SHALL BE SALVAGED FOR REINSTALLATION IN THEIR ORIGINAL LOCATIONS.

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION
EXP:
EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:

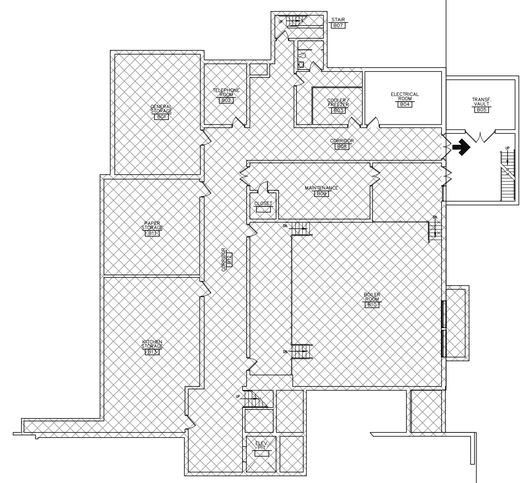
Revisions

SED #: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: JR
REVIEWED BY: PM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:
DEMOLITION SECOND FLOOR REFLECTED CEILING PLAN
DRAWING NUMBER:
AD302

LEGEND

NO WORK IN THIS AREA

EXISTING POINT OF EGRESS



1 LS100 LIFE SAFETY BASEMENT FLOOR PLAN
SCALE: 1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

LIFE SAFETY BASEMENT FLOOR PLAN

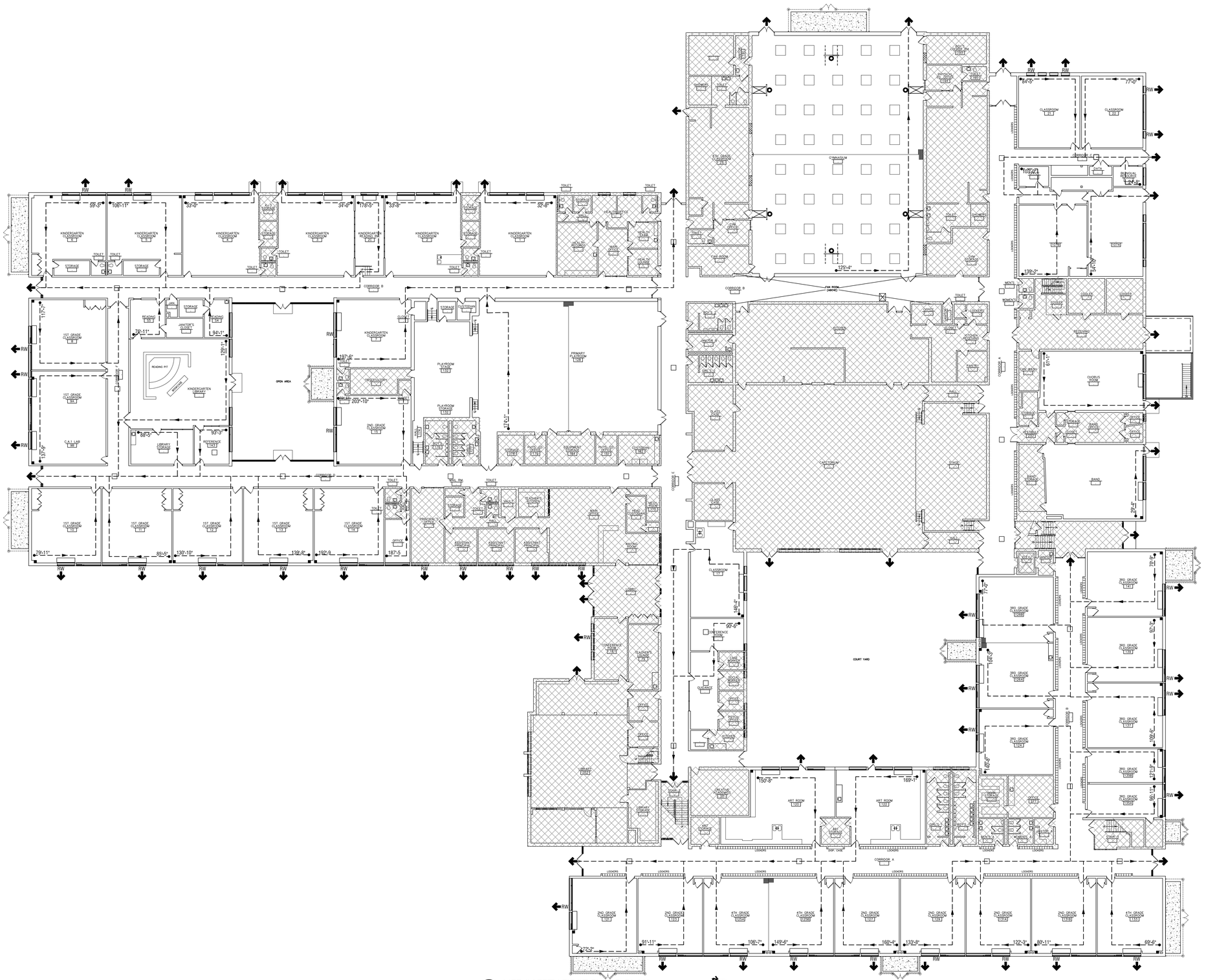
DRAWING NUMBER:

LS100

11/5/2024 11:37:15 AM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide ADI Elec Upgrade\06_Drawings\Arch\AUTOCAD\Meadow Hill Gem School\Life Safety\2233600 MHGS LS100 BASEMENT FLOOR PLAN.dwg

LEGEND

- NO WORK IN THIS AREA
- RW — EXISTING RESCUE WINDOW
- EXISTING POINT OF EGRESS



1 LS101 LIFE SAFETY FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION
EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600
DRAWN BY: JR
REVIEWED BY: PM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

LIFE SAFETY FIRST FLOOR PLAN

DRAWING NUMBER:

LS101

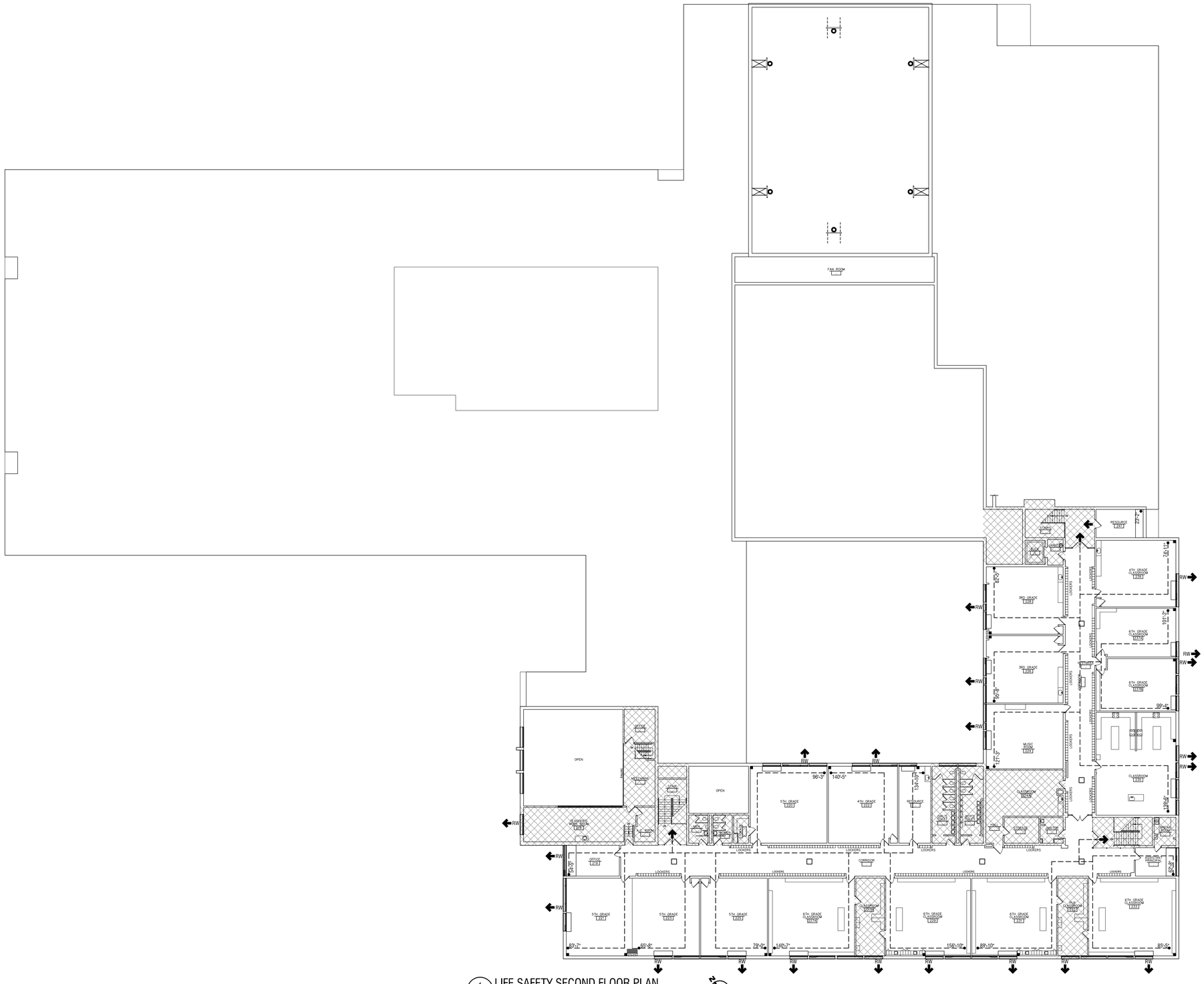
11/5/2024 11:16:41 AM
E:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Dorbrichwitz AE Elec Upgrade\06_Drawings\Arch\AUTOCAD\Meadow Hill Gem School\Life Safety\2233600 MHGS LS101 FIRST FLOOR PLAN.dwg

LEGEND

NO WORK IN THIS AREA

RW EXISTING RESCUE WINDOW

EXISTING POINT OF EGRESS



1 LS102 LIFE SAFETY SECOND FLOOR PLAN
SCALE: 1/16" = 1'-0"

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL RD. - NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

LIFE SAFETY SECOND FLOOR PLAN

DRAWING NUMBER:

LS102

11/5/2024 11:17:50 AM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Meadow Hill Gem School\Life Safety\2233600 MHGS LS102 SECOND FLOOR PLAN.dwg

GENERAL NOTES:

1. THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE RELATED PROVISIONS OF THE 2020 NEW YORK STATE UNIFORM FIRE PREVENTION AND EXISTING BUILDING CODE (NYSEBC) AND STATE ENERGY CONSERVATION CONSTRUCTION CODE (ENERGY CODE) AND STANDARDS INCLUDING ASCE STANDARD (ASCE/SEI 7–16) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
2. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO: DIMENSIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON–BEARING WALLS, STAIRS, FINISHES, DRAINS, WATERPROOFING, RAILINGS, MECHANICAL UNIT LOCATIONS, AND OTHER NON–STRUCTURAL ITEMS.
3. THIS WORK IS BEING PERFORMED WITHIN AN ACTIVE FACILITY. COORDINATE ALL WORK WITH FACILITY PERSONNEL AND ENSURE THAT THE OPERATION OF THE FACILITY IS NOT NEGATIVELY AFFECTED BY THE WORK.
4. CONTRACTOR SHALL PROCURE ALL REQUIRED PERMITS IN ACCORDANCE WITH THE AUTHORITY HAVE JURISDICTION (AHJ) PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF WORK WITH OTHER TRADES; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES, MEANS AND METHODS OF ASSEMBLY; AND FOR PERFORMING WORK IN A SAFE AND SECURE MANNER. IN GENERAL, ALL STABILIZATION ITEMS INCLUDED IN CONSTRUCTION DOCUMENTS OR UNSTABLE ITEMS KNOWN TO THE CONTRACTOR, SHALL BE REMEDIATED AND STABILIZED PRIOR TO ANY OTHER DEMOLITION OR CONSTRUCTION.
6. CONTRACTOR TO BE RESPONSIBLE FOR STRENGTH AND STABILITY OF STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN CONSTRUCTION DOCUMENTS AND REQUIREMENTS FOR EXECUTING IT PROPERLY. CONTRACTOR SHALL EMPLOY A REGISTERED ENGINEER FOR THE DESIGN OF TEMPORARY SHORING WHERE REQUIRED. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL THE FLOOR DIAPHRAGM HAS BEEN INSTALLED.
7. LOADS ON STRUCTURES DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN "DESIGN CRITERIA" OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY CONTRACTOR'S SPECIALTY STRUCTURAL ENGINEER (SSE) FOR BRACING/SHORING. CONTRACTOR SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF THE SSE TO SUPPORT CONSTRUCTION EFFORTS INCLUDING BUT NOT LIMITED TO TEMPORARY SHORING, RIGGING SUPPORT OR MEANS AND METHODS OF CONSTRUCTION.
8. MEANS AND METHODS OF CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR INCLUDING BUT NOT LIMITED TO TEMPORARY BRACING/ SHORING, RIGGING, TEMPORARY WORK PLATFORMS, DE–WATERING, CREATING AND MAINTAINING STAGING AND TEMPORARY WORK AREAS ETC. CONTRACTOR SHALL SUBMIT PLANS FOR ALL TEMPORARY EARTH WORK STABILITY INCLUDING BUT NOT LIMITED TO DE–WATERING AND SLOPE/ VERTICAL CUT STABILITY.
9. CONTRACTOR TO HAVE SOLE RESPONSIBILITY TO NOTIFY ENGINEER OF ANY BUILDING SYSTEM, MECHANICAL, ELECTRICAL, OR PLUMBING SYSTEM LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (BUILDING SYSTEM, STRUCTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING DRAWINGS).
10. IN THE CASE OF DISCREPANCIES BETWEEN GENERAL NOTES, SPECIFICATIONS, PLAN/DETAILS, REFERENCE STANDARDS, OR BETWEEN DISCIPLINES THE ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
11. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH WORK.
12. CONTRACTOR SHALL DETERMINE THE LOCATION OF ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTHWORK, FOUNDATIONS, SHORING, AND EXCAVATION. UTILITY INFORMATION SHOWN ON DRAWINGS AND DETAILS IS APPROXIMATE AND NOT NECESSARILY COMPLETE.
13. DETAILS ENTITLED OR NOTED AS "TYPICAL" APPLY NOT ONLY WHERE SPECIFICALLY INDICATED OR REFERENCED, BUT ALSO IN ALL OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. DETERMINE APPLICABILITY OF TYPICAL DETAILS FROM DESCRIPTIVE TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION TO ANOTHER CONDITION WHERE THE DETAIL IS SPECIFICALLY INDICATED OR REFERENCED.
14. USE WATER MIST, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION; DO NOT CAUSE ICING, FLOODING, OR TRANSPORTATION OF POLLUTANTS.
15. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES. APPLICABLE SAFETY CODES MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS, AND ADDITIONS THERE TO, TO THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA), AND APPLICABLE LOCAL SAFETY AND HEALTH REGULATIONS AND BUILDING CODES FOR CONSTRUCTION IN THE STATE OF NEW YORK IN ADDITION TO ANY AND ALL "HOUSE RULES" AS REQUIRED BY OWNER.
16. TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL SUBMIT A PROPOSED CONSTRUCTION SEQUENCE TO THE ENGINEER OR AS OTHERWISE DIRECTED IN THE PROJECT SPECIFICATIONS FOR APPROVAL.
17. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS NEEDED BY THE CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO WORK IN CONGESTED UTILITY AREAS. ALL TEST PIT LOGS SHALL BE SUBMITTED TO THE ENGINEER WITHIN FOURTEEN (14) DAYS FOLLOWING NOTICE TO PROCEED UNLESS OTHERWISE DIRECTED BY THE SPECIFICATIONS OR ENGINEER.
18. THE GENERAL CHARACTER AND EXTENT OF THE WORK IS SHOWN ON THE CONTRACT DRAWINGS; HOWEVER, THE CONTRACTOR SHALL PROVIDE ALL WORK REQUIRED BY THE CONSTRUCTION DOCUMENTS REGARDLESS OF WHETHER OR NOT IT IS SHOW ON THE DRAWINGS.

SUBMITTAL NOTES:

1. SUBMITTALS OF SHOP DRAWINGS AND PRODUCT DATA ARE REQUIRED FOR ALL MATERIALS, SYSTEMS AND COMPONENTS AND FOR DELEGATED DESIGN ELEMENTS.
2. SUBMITTALS SHALL BE MADE AND SUBMITTED IN TIME TO PROVIDE A MINIMUM OF TWO WEEKS FOR REVIEW BY THE ENGINEER PRIOR TO ONSET OF FABRICATION.
3. PRIOR TO SUBMISSION TO ENGINEER, CONTRACTOR SHALL REVIEW SUBMITTAL FOR COMPLETENESS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY ENGINEER AND THEREFORE MUST BE VERIFIED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ANY NECESSARY DIMENSIONAL DETAILS REQUESTED BY DETAILER AND PROVIDE CONTRACTOR'S REVIEW STAMP AND SIGNATURE BEFORE FORWARDING TO ENGINEER.
4. ONCE CONTRACTOR HAS COMPLETED CONTRACTOR'S REVIEW, ENGINEER WILL REVIEW SUBMITTAL FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND CONTRACT DOCUMENTS OF BUILDING AND WILL STAMP SUBMITTAL ACCORDINGLY. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THERE FROM. NO FABRICATION SHALL COMMENCE UNTIL ALL RELEVANT SUBMITTALS HAVE BEEN REVIEWED BY ENGINEER AND STAMPED WITH NO EXCEPTIONS TAKEN.
5. WHEN SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) DIFFER FROM OR ADD TO THE REQUIREMENTS OF STRUCTURAL DRAWINGS THEY SHALL BE DESIGNED AND CERTIFIED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER.
6. REQUIRED SUBMITTALS ARE OUTLINED IN EACH RESPECTIVE SPECIFICATION SECTION. IN GENERAL, ALL ELEMENTS, PIECES, PROCESSES AND SYSTEMS SHALL BE SUBMITTED FOR REVIEW IN THE FORM OF SHOP DRAWINGS, CUT SHEETS AND/ OR MANUFACTURER PRODUCT LITERATURE AS APPROPRIATE.
7. REPRODUCTION OF CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS UNDER ANY CIRCUMSTANCE.

DESIGN CRITERIA (NEW CONSTRUCTION ONLY):

ALL WORK SHALL COMPLY WITH THE RELATED PROVISIONS OF THE UNIFORM CODE OF NEW YORK STATE AND ITS REFERENCE STANDARDS.

DESIGN BASIS
GOVERNING CODE..........2020 EXISTING BUILDING CODE

DESIGN CRITERIA
(ALL LOADS PROVIDED BELOW ARE UNFACTORED)

DEAD LOADS:
(ALL LOADS PROVIDED BELOW ARE SERVICE–LEVEL LOADS)

DEAD LOADS:
PRIMARY STRUCTURE..........SELF–WEIGHT
SECONDARY ROOF STRUCTURE (I.E. DECKING, PURLINS, ETC.)..........SELF–WEIGHT
SECONDARY WALL STRUCTURES (I.E. PANELING, GIRTS, ETC.)..........SELF–WEIGHT
SUSPENDED ROOF LOADING (I.E. M/E/P, COINCIDENTAL LOADS, ETC.)..........7 PSF
ROOF INSULATION AND VAPOR BARRIERS..........SELF–WEIGHT

LIVE LOADS:
ROOF..........20 PSF
FLOOR LIVE LOADS..........100 PSF
RTUS..........SEE PLAN

SNOW LOADS:
GROUND SNOW LOAD (Pg)..........30 PSF
BUILDING EXPOSURE.......... PART. EXPOSED
EXPOSURE FACTOR (Ce)..........1.0
IMPORTANCE FACTOR (Is)..........1.2
THERMAL FACTOR (Ct)..........1.2
FLAT ROOF SNOW LOAD (Pf)..........30.3 PSF
ROOF SYSTEM AND SLOPE..........FLAT ROOF
ROOF SLOPE FACTOR (Cs)..........1.0
SLOPED ROOF SNOW LOAD (Ps)..........N/A

WIND LOADS:
RISK CATEGORY III
BASIC WIND SPEED (3–SECOND GUST,V)..........113 MPH
ALLOWABLE WIND SPEED (V_{ASD})..........$(0.6)^{1/2}V$
EXPOSURE CATEGORY..........B
INTERNAL PRESSURE COEFFICIENT (Cpi)..........±0.18 (ENCLOSED)
COMPONENTS AND CLADDING DESIGN WIND PRESSURES..........SEE DIAGRAM

EARTHQUAKE DESIGN DATA
RISK CATEGORY..........III
IMPORTANCE FACTOR (Ie)..........1.0
MAPPED SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (S_s)..........0.224g
MAPPED SPECTRAL RESPONSE ACCELERATION FOR 1–SECOND PERIODS (S_1)..........0.056g
SITE CLASS..........D
SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (Sds)..........0.239g
SPECTRAL RESPONSE ACCELERATION FOR 1–SECOND PERIODS (Sd1)..........0.09g
SEISMIC DESIGN CATEGORY..........B
BASIC SEISMIC FORCE RESISTING SYSTEM..........N/A
RESPONSE MODIFICATION FACTOR (R)..........N/A
DESIGN BASE SHEAR..........N/A
ANALYSIS PROCEDURE..........N/A

ROOF RAIN LOADS:
15–MINUTE PRECIPITATION INTENSITY..........5.89 IN./H
60–MINUTE PRECIPITATION INTENSITY..........2.53 IN./H

SCOPE OF WORK NOTES:

1. OUR SCOPE OF WORK IS LIMITED TO THE STRUCTURAL SYSTEMS SPECIFICALLY DETAILED HEREIN TO SUPPORT NEW ROOF TOP UNITS AND WALL MOUNTED UNITS. ANCILLARY SYSTEMS NOT SPECIFICALLY DETAILED HEREIN ARE EXPECTED TO BE THE RESPONSIBILITY OF OTHERS OR THE MANUFACTURER FOR ITEMS SUCH AS BUT NOT LIMITED TO: STAIRS AND RAILINGS, NON–STRUCTURAL PARTITION WALLS, AWNINGS / CANOPIES, CURBS, FACADE ASSEMBLIES, INTERIOR FURNISHINGS, EXTERIOR ATTACHMENTS / LIGHTING, AND DELEGATED DESIGN ITEMS.
2. INFORMATION GRAPHICALLY DEPICTED ON BACKGROUNDS / REFERENCE FILES AND NOT SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS ARE NOT INCLUDED IN OUR SCOPE OF WORK OR WITHIN OUR DESIGN RESPONSIBILITY.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL FOR THIS PROJECT IS DESIGNED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATIONS PER AISC – "MANUAL OF STEEL CONSTRUCTION" FIFTEENTH EDITION (2017).
2. CONFORM TO THE FOLLOWING REFERENCE STANDARDS:
   - 2.1. NEW YORK BUILDING CODE, CHAPTER 22 – STEEL
   - 2.2. ANSI/AISC 303–10 – CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS BRIDGES, HEREAFTER REFERENCED AS AISC 303.
   - 2.3. ANSI/AISC 360–16 – SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, HEREAFTER REFERRED TO AS AISC 360.
   - 2.4. AISC 348– 04IRCSC – SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, PREPARED BY "RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS" (RCSC), HEREAFTER REFERENCED AS RCSC.
   - 2.5. AWS D1.1–15 – STRUCTURAL WELDING CODE – STEEL, HEREAFTER REFERENCED AS AWS D1.1.
3. SUBMITTALS:
   - 3.1. SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH AISC 360 SECTION 1 AND AISC 303 SECTION 4.
   - 3.2. SUBMIT WELDER'S CERTIFICATES VERIFYING QUALIFICATION WITHIN PAST 12 MONTHS.
   - 3.3. AFFIDAVIT STATING THE STEEL PROVIDED MEETS THE REQUIREMENTS OF THE GRADES SPECIFIED.
   - 3.4. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK TO PREPARE AND CERTIFY THE STEEL CONNECTION DESIGN SUBMITTAL WHICH SHALL INCLUDE THE ASSUMPTIONS, DESIGN CALCULATIONS AND SHOP DRAWINGS AS REQUIRED TO FABRICATE AND ERECT THE FINISHED STRUCTURE AS SHOWN ON STRUCTURAL DRAWINGS.
4. MATERIALS:
   WIDE FLANGE (W), TEE (WT) SHAPES..........ASTM A 992 Fy = 50 KSI
   CHANNEL (C) ANGLE (L) SHAPES..........ASTM A 36, Fy = 36 KSI
   STRUCTURAL BARS AND PLATES (PL)..........ASTM A 36, Fy =36 KSI
   HOLLOW STRUC. SECTION–SQUARE/RECT (HSS)..........ASTM A 500, GRADE B Fy = 46 KSI
   STRUCTURAL PIPE, (PIPE) 12" DIA. AND LESS..........ASTM A 53, GRADE B Fy = 35 KSI
   HIGH–STRENGTH BOLTS..........ASTM A 325–TC
   PLAIN NUTS..........ASTM A 563
   WASHERS (FLAT OR BEVELED)..........ASTM F 436–REQUIRED SLOTS & OVERSIZE HOLES
   ANCHOR RODS (ANCHOR BOLTS)..........ASTM F 1554, Gr. 36
   MILD THREADED RODS..........ASTM A 36, Fy = 36 KSI
   WELDING ELECTRODES..........E70XX, E71TXX UNLESS OTHERWISE NOTED WITH A MINIMUM TOUGHNESS OF 20 FT–LBS AT 40°F
5. WELDING:
   - 5.1. CONFORM TO AWS D1.1 AND VISUALLY CONFORM TO AWS SECTION 6 AND TABLE 6.1.
   - 5.2. WELDERS SHALL BE QUALIFIED FOR THE SPECIFIC PREQUALIFIED JOINTS REQUIRED BY DESIGN AND CERTIFIED IN ACCORDANCE WITH LOCAL REQUIREMENTS.
   - 5.3. WELDING SHALL BE DONE IN ACCORDANCE WITH APPROPRIATE WELD PROCEDURE SPECIFICATIONS (WPS'S). WELDERS SHALL BE FAMILIAR WITH APPLICABLE WPS'S.
   - 5.4. WELDING SHALL BE PERFORMED WITH AWS PREQUALIFIED WELDING PROCESS UNLESS OTHERWISE APPROVED.
   - 5.5. WELDER QUALIFICATIONS AND WPS'S SHALL BE MAINTAINED AT SITE OF WORK AND SHALL BE READILY AVAILABLE FOR INSPECTION UPON REQUEST BOTH IN SHOP AND FIELD.
   - 5.6. USE E70 OR E71 T, 70 KSI STRENGTH ELECTRODES APPROPRIATE FOR PROCESS SELECTED.
6. ALL COLUMNS (VERTICAL MEMBER ASSEMBLIES WEIGHING OVER 300 POUNDS) SHALL BE PROVIDED WITH A MINIMUM OF FOUR ¾" DIAMETER ANCHOR RODS. COLUMN BASE PLATES SHALL BE AT LEAST ¾" THICK UNLESS NOTED OTHERWISE. CAST–IN–PLACE HEADED ANCHOR RODS SHALL BE PROVIDED UNLESS OTHERWISE APPROVED BY ENGINEER. UNLESS NOTED OTHERWISE, EMBEDMENT OF CAST–IN–PLACE HEADED ANCHOR RODS SHALL BE 12 TIMES THE ANCHOR DIAMETER (12D).
7. FABRICATION:
   - 7.1. CONFORM TO AISC 303, SECTION 8 AND AISC 360 SECTIONS M2 AND M5.
   - 7.2. STRUCTURAL WELDING AND QUALIFICATIONS SHALL CONFORM TO AWS D1.1. FABRICATOR SHALL MAINTAIN DETAILED FABRICATION AND ERECTION QUALITY CONTROL PROCEDURES PER BCNYS SECTION 1704.2.1.
   - 7.3. ALL STEEL COMPONENTS SHALL BE HOT DIPPED GALVANIZED.
8. ERECTION:
   - 8.1. CONFORM TO AISC 303, SECTION 7 "ERECTION", SECTION 8 "QUALITY ASSURANCE" AND AISC 380 SECTION 4.
   - 8.2. ERECTOR SHALL MAINTAIN DETAILED FABRICATION AND ERECTION QUALITY CONTROL PROCEDURES THAT ENSURE WORK IS PERFORMED IN ACCORDANCE WITH AISC 360 SECTION M, AISC 303, AND CONTRACT DOCUMENTS.
   - 8.3. STEEL WORK SHALL BE CARRIED UP TRUE AND PLUMB WITHIN LIMITS DEFINED IN AISC 303 SECTION 7.11.
   - 8.4. STRUCTURAL WELDING TO CONFORM TO AWS D1.1 AND APPLICABLE WELDING NOTES ABOVE.
9. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SAFETY PROTECTIONS REQUIRED BY AISC 360 SECTION M4.2 AND AISC 303 SECTION 7.10 AND 7.11.

Design Component & Cladding Loads							
	Area (sf)	Zone 1'	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Wind Pressure (+) (psf)	10	16.0	16.0	16.0	16.0	21.6	21.6
	20	16.0	16.0	16.0	16.0	20.7	20.7
	50	16.0	16.0	16.0	16.0	19.8	19.8
	100	16.0	16.0	16.0	16.0	18.0	18.0
	200	16.0	16.0	16.0	16.0	17.6	17.6

Design Component & Cladding Loads								Overhang	
	Area (sf)	Zone 1'	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 2	Zone 3
Wind Pressure (-) (psf)	10	-19.8	-34.5	-45.5	-62.0	-23.5	-29.0	-45.5	-62.0
	20	-19.8	-32.6	-42.2	-56.5	-22.6	-27.1	-41.4	-55.0
	50	-19.8	-29.0	-38.5	-47.9	-21.3	-24.4	-36.3	-45.8
	100	-19.8	-27.1	-35.9	-42.4	-20.2	-22.6	-32.6	-39.6
	200	-17.1	-24.4	-32.6	-36.3	-19.3	-20.7	-29.0	-32.6

W1
S001

COMPONENT AND CLADDING WIND DESIGN PRESSURE FOR FLAT ROOF
SCALE: N.T.S

CONCRETE MASONRY UNIT - MASONRY:

1. COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION (CMU) WALL SYSTEM SHALL BE AS FOLLOWS: MASONRY STRENGTH NOT SPECIFICALLY NOTED IN PLAN SHALL BE f'm = 2000 PSI MINIMUM. STRENGTH OF BLOCK ITSELF SHALL BE f'm = 2000 PSI MIN.
2. CONCRETE MASONRY SHALL BE HOLLOW LOAD–BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. ALL UNITS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION WITH ALL VERTICAL CELLS IN ALIGNMENT EXCEPT AT DRY STACKED INFILL LOCATIONS.
3. MORTAR SHALL CONFORM TO REQUIREMENTS OF TYPE M OR S.
4. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615. REINFORCING SHALL BE GRADE 60 (Fy = 60 KSI) DEFORMED BARS FOR ALL BARS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. ALL REINFORCING TO BE WELDED SHALL BE ASTM A706, GRADE 60 LOW ALLOY WELDABLE STEEL.
5. HORIZONTAL MASONRY JOINT REINFORCEMENT SHALL COMPLY WITH ASTM A951. HORIZONTAL REINFORCEMENT TO BE HOT–DIPPED GALVANIZED STEEL LADDER TYPE WITH 9 GAUGE MINIMUM SIDE AND CROSS RODS.
6. WELDING OF REINFORCING BARS, METAL INSERTS, AND CONNECTIONS SHALL CONFORM TO AMERICAN WELDING SOCIETY AWS D1.4 – STRUCTURAL WELDING CODE, AND SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS AND DETAILS.
7. ALL REINFORCING SHALL BE BENT COLD, BARS SHALL NOT BE STRAIGHTENED AND REBENT. FIELD BENDING OF REBAR SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED OTHERWISE.
8. REINFORCING BAR SPACING SHOWN ON PLANS ARE AT MAXIMUM ON CENTERS. ALL BARS SHALL BE DETAILED AND PLACED WITHIN ½" TOLERANCE PERPENDICULAR TO THE WALL AND WITHIN 2" TOLERANCE PARALLEL TO THE WALL. SUPPORT ALL REINFORCEMENT TO PREVENT DISPLACEMENT CAUSED BY CONSTRUCTION LOADS OR BY PLACEMENT OF GROUT AND MORTAR BEYOND ALLOWABLE TOLERANCES.
9. MASONRY GROUT SHALL BE IN ACCORDANCE WITH ASTM C476. GROUT EXCEPT FOR SELF CONSOLIDATING GROUT SHALL HAVE A SLUMP BETWEEN 8 AND 11" WHEN MEASURED IN ACCORDANCE WITH ASTM C143.
10. BAR LAP LENGTHS:
    - 10.1. #4 BAR – 20 INCHES
    - 10.2. #5 BAR – 25 INCHES
11. MINIMUM VERTICAL WALL REINFORCING SHALL BE AS INDICATED IN THE PLANS AND SHALL BE FULL HEIGHT IN CENTER OF GROUTED CELL AT WALL INTERSECTIONS, CORNERS, AND DOOR JAMBS.
12. MINIMUM HORIZONTAL WALL REINFORCING SHALL INCLUDE A BOND BEAM AT THE TOP OF THE WALL WITH A MINIMUM OF 1 NO. 4 BAR CONTINUOUS AROUND PERIMETER FOR 6" MASONRY WALLS AND 1 NO. 5 CONTINUOUS AROUND THE PERIMETER FOR 8" MASONRY WALLS. PROVIDE BENT BARS PER TYPICAL DETAILS TO MATCH AND LAP WITH HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND WALL INTERSECTIONS TO MAINTAIN CONTINUITY OF BOND BEAM REINFORCEMENT.
13. MINIMUM MASONRY LINTEL SHALL BE AS INDICATED IN THE PLANS. ALL LINTEL REINFORCING SHALL EXTEND 2 FEET PAST JAMBS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.
14. MASONRY VENEER SHALL BE ATTACHED TO SUPPORTING WALL FRAMING WITH A 3/16" DIA. WALL TIES OR DOVETAIL–TYPE METAL TIES OF EQUIVALENT STIFFNESS EMBEDDED INTO HORIZONTAL MORTAR JOINTS. MAXIMUM VERTICAL SPACING OR TIES SHALL BE 16". MAX HORIZONTAL SPACING SHALL BE 24". TIES IN ALTERNATE COURSES SHALL BE STAGGERED. PROVIDE 9 GA. WIRE REINFORCING IN HORIZONTAL MORTAR JOINTS AT 16" O.C. ENGAGE 9 GA. WIRE WITH WALL ANCHOR TIES.
15. LOOSE ANGLE BRICK LINTELS SHALL BE SPECIFIED BY OTHERS.
16. RETAINING WALLS, BASEMENT WALLS, ETC., SHALL BE ADEQUATELY WATERPROOFED AND DRAINED AS SPECIFIED BY OTHERS.
17. WHERE VERTICAL REINFORCING INTERSECTS HORIZONTAL REINFORCING, BOTH SHALL BE CONTINUOUS.
18. MAXIMUM HEIGHT FOR GROUT POUR SHALL NOT EXCEED 64" UNLESS A CLEANOUT IS PROVIDED AT THE BOTTOM OF EACH CELL CONTAINING REINFORCEMENT OR AT A MAXIMUM HORIZONTAL SPACING OF 32" WHICHEVER IS LESS.
19. FOLLOW ALL MANUFACTURER'S INSTALLATION RECOMMENDATIONS WHERE DOWELS, BOLTS, OR INSERTS ARE CALLED TO BE ANCHORED TO CAST IN PLACE CONCRETE ELEMENTS USING EPOXY ADHESIVES OR MECHANICAL ANCHORAGE.

GUARDRAIL AND HANDRAIL NOTES:

1. ALL GUARDRAILS AND HANDRAILS SHALL CONFORM TO 2020 BUILDING CODE OF NEW YORK STATE AND OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS AND REGULATIONS.
2. GUARDRAILS AND HANDRAILS SHALL BE THE PRODUCT OF A COMPANY NORMALLY ENGAGED IN THE MANUFACTURING OF PIPE RAILING. RAILING SHALL BE SHOP ASSEMBLED IN LENGTHS NOT TO EXCEED 24 FEET FOR FIELD ERECTION.
3. THE HANDRAIL SHALL BE MADE OF PIPES JOINED TOGETHER WITH COMPONENT FITTINGS. SAMPLES OF ALL COMPONENTS, BASES, TOE PLATE AND PIPE SHALL BE SUBMITTED FOR APPROVAL AT THE REQUEST OF THE ENGINEER. COMPONENTS THAT ARE POP–RIVETED OR GLUED AT THE JOINTS WILL NOT BE ACCEPTABLE. ALL COMPONENTS MUST BE WELDED OR MECHANICALLY FASTENED WITH STAINLESS STEEL HARDWARE. HANDRAIL AND COMPONENTS SHALL BE FABRICATED OR MANUFACTURED BY A CERTIFIED SUPPLIER.
4. RAILINGS SHALL BE 1½" SCHEDULE 40 STEEL. POSTS SHALL BE 1½" SCHEDULE 40 STEEL PIPE OF THE SAME ALLOY. POST SPACING SHALL BE A MAXIMUM OF 4'–0".
5. GUARDRAILS AND HANDRAILS SHALL BE DESIGNED TO WITHSTAND A LINEAR LOAD OF 50 POUNDS PER LINEAR FOOT AND A 200 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE TOP RAIL. THE LINEAR LOAD AND CONCENTRATED LOAD SHALL NOT BE CONCURRENT.
6. THE MANUFACTURER SHALL SUBMIT CALCULATIONS FOR APPROVAL OF THE ENGINEER. TESTING OF BASE CASTINGS OR BASE EXTRUSIONS BY AN INDEPENDENT LAB OR MANUFACTURER'S LAB WILL BE AN ACCEPTABLE SUBSTITUTE FOR CALCULATIONS. CALCULATIONS WILL BE REQUIRED FOR APPROVAL OF ALL OTHER DESIGN ASPECTS.
7. POSTS SHALL NOT INTERRUPT THE CONTINUATION OF THE TOP RAIL AT ANY POINT ALONG THE RAILING, INCLUDING CORNERS AND END TERMINATIONS (OSHA 1910.23). THE TOP SURFACE OF THE TOP RAILING SHALL BE SMOOTH AND SHALL NOT BE INTERRUPTED BY PROJECTED FITTINGS.
8. THE MID–RAIL AT A CORNER RETURN SHALL BE ABLE TO WITHSTAND A 200 LB LOAD WITHOUT LOOSENING. THE MANUFACTURER IS TO DETERMINE THIS DIMENSION FOR THEIR SYSTEM AND PROVIDE PHYSICAL LABORATORY TESTS TO CONFIRM COMPLIANCE.
9. CONCRETE ANCHORS SHALL BE STAINLESS STEEL AND FURNISHED BY THE CONTRACTOR. THE ANCHOR DESIGN SHALL INCLUDE THE APPROPRIATE REDUCTION FACTORS FOR SPACING AND EDGE DISTANCES IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DATA.
10. TOE BOARDS SHALL BE PROVIDED WHEN EMPLOYEES BELOW COULD BE EXPOSED TO FALLING OBJECTS. TOE BOARDS SHALL CONFORM TO OSHA STANDARDS. TOE BOARDS SHALL BE A MINIMUM OF 4" HIGH AND BE CAPABLE OF WITHSTANDING A FORCE OF 50 POUNDS APPLIED IN ANY DIRECTION. TOE BOARDS SHALL BE AN EXTRUSION THAT ATTACHES TO THE POSTS WITH CLAMPS THAT WILL ALLOW FOR EXPANSION AND CONTRACTION BETWEEN POSTS. TOE BOARDS SHALL BE SET 1/4" ABOVE THE WALKING SURFACE. TOE BOARDS SHALL BE PROVIDED ON GUARDRAILS AS REQUIRED BY OSHA AND/OR AS SHOWN ON DRAWINGS.
11. OPENINGS IN THE GUARDRAIL SHALL BE GUARDED BY A SELF–CLOSING GATE (OSHA 1910.23). SAFETY CHAINS SHALL NOT BE USED UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
12. FINISHES SHALL MEET OSHA STANDARDS AND REGULATIONS. STEEL SHALL RECEIVE TWO (2) COATS OF ZINC–RICH PRIMER AND ONE (1) FINISH COAT (BRIGHT YELLOW FOR VISIBILITY).
13. SURFACES IN CONTACT WITH CONCRETE, GROUT OR DISSIMILAR METALS WILL BE PROTECTED WITH A COAT OF BITUMINOUS PAINT, MYLAR ISOLATORS OR OTHER APPROVED MATERIAL.

CAST-IN-PLACE CONCRETE:

1. CONFORM TO THE FOLLOWING REFERENCE STANDARDS:
   - 1.1. ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE"
   - 1.2. ACI 302 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
   - 1.3. BUILDING CODE CHAPTER 19 – CONCRETE
   - 1.4. ACI 318–14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
2. CONTRACTOR TO KEEP A COPY OF ACI FIELD REFERENCE MANUAL, SP–15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) WITH SELECTED ACI AND ASTM REFERENCES".
3. CONFORM TO ACI 301 SECTION 4 "CONCRETE MIXTURES".
4. CONFORM TO ACI 301 SECTION 4.2.1 "MATERIALS" FOR REQUIREMENTS FOR CEMENTITIOUS MATERIALS, AGGREGATES, MIXING WATER AND ADMIXTURES.
5. PROVIDE ALL SUBMITTALS REQUIRED BY ACI 301 SECTION 4.1.2. SUBMIT MIX DESIGNS FOR EACH MIX IN THE TABLE BELOW.

MIX DESIGN REQUIREMENTS								
MEMBER TYPE/LOCATION	STRENGTH (PSI)	TEST AGE (DAYS)	MAXIMUM AGGREGATE		AIR CONTENT	CEMENTITIOUS MATERIALS	FINISH	% FLY ASH OF CEMENTIOUS MATERIAL
CONCRETE TOPPING	5000	28	1"		6% (±1.5%)	ASTM C150	BROOM FINISH	15%–30%

SLUMP NOTES
1. 8" MAXIMUM FOR FLOWABLE CONCRETE. CONCRETE CONTAINING HRWR ADMIXTURE (SUPERPLASTICIZER): 3" MAXIMUM BEFORE ADDITION OF HRWR. PLASTICIZER SHALL BE ADDED AND MIXED ON SITE IF TRAVEL TIME IS GREATER THAN 40 MINUTES.
2. WHERE FIELD CONDITIONS REQUIRE SLUMP TO EXCEED THAT SPECIFIED ABOVE, INCREASED SLUMP SHALL BE OBTAINED BY A SUPERPLASTICIZER ADDED ON SITE IN QUANTITIES SPECIFICALLY NOTED IN THE APPROVED MIX DESIGN.
3. NO WATER SHALL BE ADDED ON SITE EXCEPT IN QUANTITIES SPECIFICALLY NOTED IN THE APPROVED MIX DESIGN.
4. SEE SPECIFICATIONS, FOR SLUMP REQUIREMENTS.

6. MIX DESIGN NOTES:
   - 6.1. MIX DESIGN SUBMITTED SHALL HAVE DOCUMENTATION OF HISTORICAL BREAK STRENGTHS IN ACCORDANCE WITH ACI 318–14 SECTION 26.12.
   - 6.2. WATER–CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. RATIOS NOT SHOWN IN TABLE ABOVE ARE CONTROLLED BY STRENGTH REQUIREMENTS.
   - 6.3. CEMENTITIOUS CONTENT:
     - 6.3.1. THE USE OF FLY ASH, OTHER POZZOLANS, SILICA FUME, OR SLAG SHALL CONFORM TO ACI 301 SECTION 4.2.2.8.b. MAXIMUM AMOUNT OF FLY ASH SHALL BE 20% OF TOTAL CEMENTITIOUS CONTENT UNLESS OTHERWISE REVIEWED AND APPROVED BY ENGINEER.
     - 6.3.2. FOR CONCRETE USED IN ELEVATED FLOORS, PORTLAND CEMENT CONTENT SHALL CONFORM TO ACI 301 SECTION 4.2.2.1. ACCEPTANCE OF LOWER CEMENT CONTENT IS CONTINGENT ON PROVIDING SUPPORTING DATA TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
   - 6.4. AIR CONTENT: CONFORM TO ACI 301 SECTION 4.2.2.4. CONCRETE SURFACES IN CONTACT WITH SOIL REQUIRE ENTRAINED AIR. HORIZONTAL AND VERTICAL EXTERIOR SURFACES REQUIRE "SEVERE EXPOSURE". TOLERANCE IS ±1%. AIR CONTENT SHALL BE MEASURED AT POINT OF PLACEMENT.
   - 6.5. SLUMP: CONFORM TO ACI 301 SECTION 4.2.2.2. SLUMP SHALL BE DETERMINED AT POINT OF PLACEMENT.
   - 6.6. NO CHLORIDES SHALL BE USED IN ANY CONCRETE MIX DESIGN. ALL AGGREGATES, CEMENT, WATER AND ADDITIVES SHALL BE CHLORIDE FREE.
7. THE ENGINEER OF RECORD (EOR) CANNOT PROVIDE RECOMMENDATIONS REGARDING TIMING FOR STRIPPING FORMS, BACKFILLING WALLS, REMOVAL OF SHORING (AS FOR ELEVATED SLABS) AND / OR LOADING STRUCTURAL ELEMENTS AS THIS IS PART OF THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION AND INCLUDES VARIABLES OUTSIDE OF THE EOR'S CONTROL. IN GENERAL, STRUCTURAL ELEMENTS CAN BE LOADED ONCE AT LEAST 75% OF THE SPECIFIED 28–DAY CONCRETE STRENGTH HAS BEEN ACHIEVED. CONTRACTOR MAY UTILIZE CONCRETE SENSORS (SUCH AS HILTI HCS T1 CONCRETE SENSOR) TO MONITOR STRENGTH AS PART OF THEIR MEANS AND METHODS OF CONSTRUCTION. FOR CONCRETE LESS THAN 18–INCH THICKNESS, CONTRACTOR MAY REQUEST ADDITIONAL FIELD CURED SAMPLES TO MONITOR STRENGTH AS PART OF THEIR MEANS AND METHODS OF CONSTRUCTION.
8. CONCRETE DENSITY SHALL BE NORMAL WEIGHT UNLESS SPECIFICALLY OTHERWISE NOTED.
9. CONCRETE REINFORCING STEEL SHALL BE CONTINUOUS UNLESS OTHERWISE INDICATED. CONTINUOUS REINFORCING STEEL SHALL BE LAPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND THE CONCRETE REINFORCEMENT SCHEDULE THIS SHEET.
10. ALL EMBEDDED ITEMS SHALL BE PROPERLY PLACED, ACCURATELY POSITIONED, AND MAINTAINED SECURELY IN PLACE PRIOR TO AND DURING CONCRETE PLACEMENT.
11. NO CONCRETE SHALL BE PLACED UNTIL THE CONTRACTING OFFICER HAS INSPECTED ALL EMBEDDED WORK, INCLUDING REINFORCEMENT.
12. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED ¾" OR AS INDICATED.
13. ALUMINUM SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM–CONCRETE REACTION AND ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
14. CONFORM TO ACI 301 SECTION 2 "FORMWORK AND FORM ACCESSORIES". REMOVAL OF FORMS SHALL CONFORM TO SECTION 2.3.2 EXCEPT STRENGTH INDICATED IN SECTION 2.3.2.5 SHALL BE 0.75 f'c.
15. MEASURING, MIXING AND DELIVERY SHALL CONFORM TO ACI 301 SECTION 4.3.
16. HANDLING, PLACING, CONSTRUCTING AND CURING SHALL CONFORM TO ACI 301 SECTION 5.
17. PROVIDE CURING COMPOUNDS FOR CONCRETE AS FOLLOWS:
    - 17.1. SPRAY EVAPORATIVE RETARDANTS AS FINISHING AGENT AND TO CONTROL PLASTIC SHRINKAGE.
    - 17.2. APPLY SPECIFIED CURING COMPOUND TO CONCRETE SLABS AS SOON AS FINAL FINISHING OPERATIONS ARE COMPLETE (WITHIN 2 HOURS AND AFTER SURFACE WATER SHEEN HAS DISAPPEARED). APPLY UNIFORMLY IN CONTINUOUS OPERATION BY POWER SPRAY OR ROLLER IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. RECOAT AREAS SUBJECTED TO HEAVY RAINFALL WITHIN 3 HOURS AFTER INITIAL APPLICATION. MAINTAIN CONTINUITY OF COATING AND REPAIR DAMAGE DURING CURING PERIOD.
    - 17.3. USE MEMBRANE CURING COMPOUNDS THAT WILL NOT AFFECT SURFACES TO BE COVERED WITH FINISH MATERIALS APPLIED DIRECTLY TO CONCRETE.
    - 17.4. APPLY CURING COMPOUND AT RATE EQUIVALENT TO RATE OF APPLICATION AT WHICH CURING COMPOUND WAS ORIGINALLY TESTED FOR CONFORMANCE TO REQUIREMENTS OF ASTM C 309.
    - 17.5. USE CURING COMPOUND COMPATIBLE WITH AND APPLIED UNDER DIRECTION OF SYSTEM MANUFACTURER OF PROTECTION SEALER.
    - 17.6. ALL CONCRETE MUST ACHIEVE 1000 PSI COMPRESSIVE STRENGTH BEFORE BEING SUBJECTED TO FREEZING AND THAWING CYCLES.
    - 17.7. APPLY 2 SEPARATE COATS WITH FIRST ALLOWED TO BECOME TACKY BEFORE APPLYING SECOND. DIRECTION OF SECOND APPLICATION SHALL BE AT RIGHT ANGLES TO DIRECTION OF FIRST.
18. CONSTRUCTION JOINTS SHALL CONFORM TO ACI 301 SECTIONS 2.2.2.5, 5.1.2.3a, 5.2.2.1 AND 5.3.2.6. CONSTRUCTION JOINTS SHALL BE LOCATED AND DETAILED AS ON CONSTRUCTION DRAWINGS. USE OF AN ACCEPTABLE ADHESIVE, SURFACE RETARDANT, PORTLAND CEMENT GROUT OR ROUGHENING THE SURFACE IS NOT REQUIRED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
19. POSITION AND SECURE IN PLACE EXPANSION JOINT MATERIAL, ANCHORS AND OTHER STRUCTURAL AND NON–STRUCTURAL EMBEDDED ITEMS BEFORE PLACING CONCRETE. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND BUILDING SYSTEMS DRAWINGS AND COORDINATE OTHER EMBEDDED ITEMS.
20. USE 7,000 PSI NON–SHRINK GROUT UNDER COLUMN BASE PLATES, ETC.
21. POST–INSTALLED ANCHORS TO CONCRETE: ANCHOR LOCATION, TYPE, DIAMETER AND EMBEDMENT SHALL BE AS INDICATED ON DRAWINGS. ANCHORS SHALL BE INSTALLED AND INSPECTED IN STRICT ACCORDANCE WITH APPLICABLE ICC EVALUATION SERVICE REPORT (ESR). SPECIAL INSPECTION SHALL BE PER THE TESTS AND INSPECTIONS SECTION.
22. FINISH:
    - 22.1. FLOATED WITH LIGHT STEEL TROWEL AND BROOM FINISH.
23. OWNER SHALL RETAIN AN INDEPENDENT TESTING LAB TO OBTAIN SAMPLES AND CONDUCT TESTS IN ACCORDANCE WITH ACI 301 SECTION 1.6.4.2. ADDITIONAL SAMPLES MAY BE REQUIRED TO OBTAIN CONCRETE STRENGTHS AT ALTERNATE INTERVALS THAN SHOWN BELOW.
    - 23.1. CURE 5 CYLINDERS FOR 28–DAY TEST AGE. TEST 2 CYLINDERS AT 7 DAYS OR AT CONTRACTOR REQUEST, TEST 2 CYLINDERS AT 28 DAYS, AND HOLD 1 CYLINDER IN RESERVE FOR USE AS ENGINEER DIRECTS. AFTER 56 DAYS, UNLESS NOTIFIED BY ENGINEER TO THE CONTRARY, RESERVE CYLINDER MAY BE DISCARDED WITHOUT BEING TESTED FOR SPECIMENS MEETING 28–DAY STRENGTH REQUIREMENTS.
    - 23.2. ACCEPTABLE STRENGTH IS SATISFACTORY WHEN:
      - 23.2.1. THE AVERAGES OF ALL SETS OF 3 CONSECUTIVE TESTS EQUAL OR EXCEED THE SPECIFIED STRENGTH.
      - 23.2.2. NO INDIVIDUAL TEST FALLS BELOW THE SPECIFIED STRENGTH BY MORE THAN 500 PSI.
      - 23.2.3. A "TEST" FOR ACCEPTANCE IS THE AVERAGE STRENGTH OF 2 CYLINDERS TESTED AT THE SPECIFIED TEST AGE.
24. COLD WEATHER CONCRETE PLACEMENT
    - 24.1. PLACE CONCRETE IN ACCORDANCE WITH ACI 306.1 AND AS FOLLOWS. PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST FREEZING ACTIONS, OR LOW TEMPERATURES.
    - 24.2. WHEN AIR TEMPERATURE HAS FALLEN TO OR IS EXPECTED TO FALL BELOW 40°F UNIFORMLY HEAT WATER AND AGGREGATES BEFORE MIXING TO OBTAIN A CONCRETE MIX TEMPERATURE OF NOT LESS THAN 50°F AND NOT MORE THAN 80° AT POINT OF PLACEMENT.
    - 24.3. DO NOT USE FROZEN MATERIALS OR MATERIALS CONTAINING ICE OR SNOW. DO NOT PLACE CONCRETE ON FROZEN SUBGRADE OR ON SUBGRADE CONTAINING FROZEN MATERIALS. DO NOT USE CALCIUM CHLORIDE, SALT OR OTHER MATERIALS CONTAINING ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS, UNLESS OTHERWISE SPECIFIED AND APPROVED IN MIX DESIGNS.
25. HOT WEATHER CONCRETE PLACEMENT SHALL BE IN CONFORMANCE WITH ACI 305R LATEST EDITION "HOT WEATHER CONCRETING".
    - 25.1. CONCRETE SHALL NOT BE PLACED THAT HAS REACHED OR EXCEEDED 90°F.
26. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME UNLESS SPECIFICALLY APPROVED BY ENGINEER. ENGINEER OR INSPECTOR HAS AUTHORITY TO REJECT TRUCKS NOT MEETING PROJECT SPECIFICATIONS AND/ OR TEMPERATURE/ TIME REQUIREMENTS. CONTRACTOR TAKES FULL RESPONSIBILITY FOR ANY REJECTED TRUCKS

CONCRETE REINFORCEMENT NOTES:

1. CONFORM TO THE FOLLOWING REFERENCE STANDARDS:
   - 1.1. ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", SECTION 3 "REINFORCEMENT SUPPORTS"
   - 1.2. ACI SP–66 "ACI DETAILING MANUAL" INCLUDING ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
   - 1.3. CRSI MSP–2 "MANUAL OF STANDARD PRACTICE"
   - 1.4. ANSI/AWS D1.4 "STRUCTURAL WELDING CODE – REINFORCING STEEL"
   - 1.5. BUILDING CODE CHAPTER 19 – CONCRETE
   - 1.6. ACI 318–14
2. CONFORM TO ACI 301 SECTION 3.1.1 "SUBMITTALS, DATA AND DRAWINGS". SUBMIT PLACING DRAWINGS SHOWING FABRICATION DIMENSIONS AND LOCATIONS FOR PLACEMENT OF REINFORCEMENT AND REINFORCEMENT SUPPORTS.
3. MATERIALS:
   A. REINFORCING BARS..........ASTM A 615, GRADE 60, DEFORMED BARS
   B. BAR SUPPORTS..........CRSI SP–2, CHAPTER 3 – BAR SUPPORTS
   C. TIE WIRE..........4/0 GAUGE OR HEAVIER, BLACK ANNEALED
   D. WELDED WIRE REINFORCEMENT..........ASTM A185, SHEET TYPE
4. CONFORM TO ACI 301, SECTION 3.2.2 "FABRICATION" AND ACI SP–66 "ACI DETAILING MANUAL".
5. BARS SHALL NOT BE WELDED UNLESS AUTHORIZED. WHEN AUTHORIZED, CONFORM TO ACI 301, SECTION 3.2.2.2 "WELDING" AND PROVIDE ASTM A706, GRADE 60 REINFORCEMENT.
6. WELDED WIRE REINFORCEMENT SHEET LAPS SHALL BE TIED AND LAPPED ONE FULL MESH SPACING PLUS 2".
7. CONFORM TO ACI 301, SECTION 3.3.2 "PLACEMENT". PLACING TOLERANCES SHALL CONFORM TO SECTION 3.3.2.1 "TOLERANCES".
8. CONFORM TO THE FOLLOWING MINIMUM COVER REQUIREMENTS FROM ACI 301, TABLE 3.3.2.3:
   A. CONCRETE CAST AGAINST EARTH..........3"
   B. CONCRETE EXPOSED TO EARTH OR WEATHER..........2"
   C. SLABS, WALLS AND JOINTS NOT EXPOSED TO WEATHER OR EARTH..........¾"
9. CONFORM TO ACI 301, SECTION 3.3.2.7. FOR TYPICAL REINFORCEMENT SPLICES. USE CLASS B SPLICES UNLESS NOTED OTHERWISE. MECHANICAL CONNECTIONS MAY BE USED WHEN APPROVED BY THE ENGINEER. THE SPLICES INDICATED ON INDIVIDUAL SHEETS SHALL CONTROL OVER THE SCHEDULE.
10. CONFORM TO ACI 301 SECTION 3.3.2.8 "FIELD BENDING OR STRAIGHTENING". BAR SIZES 3 THROUGH 5 MAY BE FIELD BENT COLD THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS. DO NOT BEND BARS TWICE.
11. ALL TIES SHALL BE CONTINUOUS AND TERMINATE IN 135° HOOKS.

CONCRETE REINFORCEMENT SCHEDULES:

CLASS B SPLICE LENGTH OF HORIZONTAL BOTTOM BARS & VERTICAL BARS				
	F'c IN PSI @28 DAYS			
BAR SIZE	3,500	4,000	4,500	5,000
#3	20"	19"	18"	17"
#4	27"	25"	24"	23"
#5	33"	31"	30"	28"
#6	40"	37"	35"	34"
#7		54"		
#8		62"		
#9		70"		

CLASS B SPLICE LENGTH OTHER* BARS				
	F'c IN PSI @28 DAYS			
BAR SIZE	3,500	4,000	4,500	5,000
#3	26"	25"	23"	22"
#4	35"	33"	31"	29"
#5	43"	41"	38"	36"
#6	52"	49"	46"	44"
#7		71"		
#8		81"		
#9		91"		

NOTES:
1. * OTHER INDICATES HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE PLACED BELOW.
2. TABLE BASED ON ASTM A615 GRADE 60 STEEL.
3. TABLE BASED ON NORMAL WEIGHT CONCRETE, UNCOATED OR ZINC–COATED REINFORCEMENT.
4. TABLE INDICATES MINIMUM LAP UNLESS NOTED OTHERWISE.
5. PROVIDE MINIMUM CLEAR SPACING BETWEEN BARS OF 2 TIMES BAR DIAMETER AND MINIMUM CLEAR COVER OF BAR DIAMETER.
6. CLASS A SPLICES MAY BE USED BY CONTRACTOR AS NEEDED WHERE SPECIFICALLY REVIEWED AND APPROVED BY EOR.

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

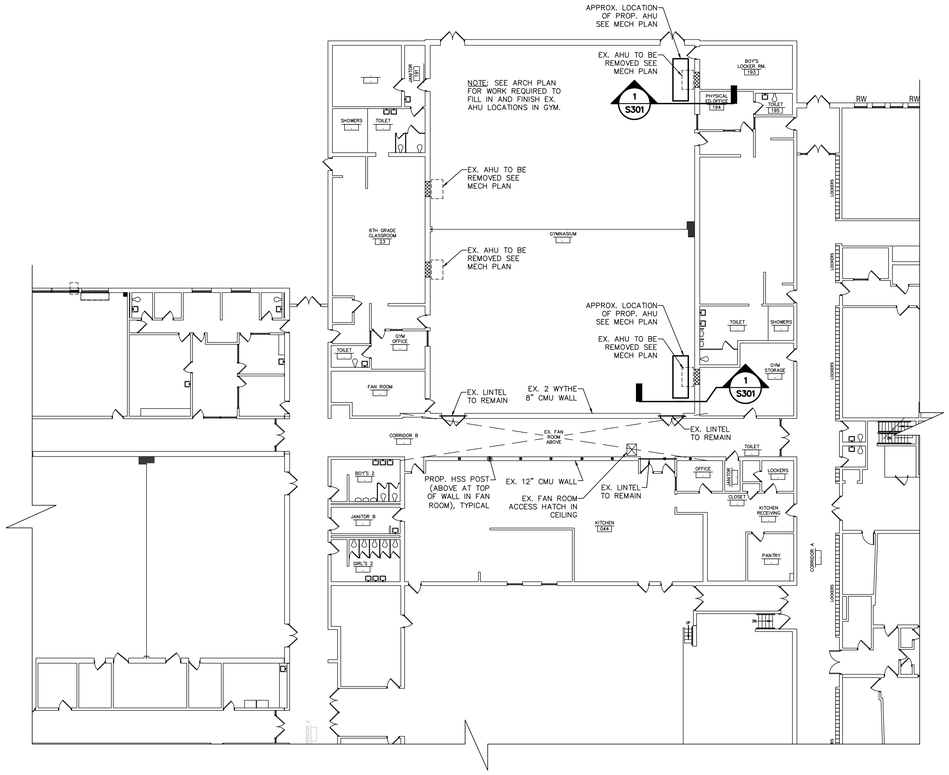
NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550

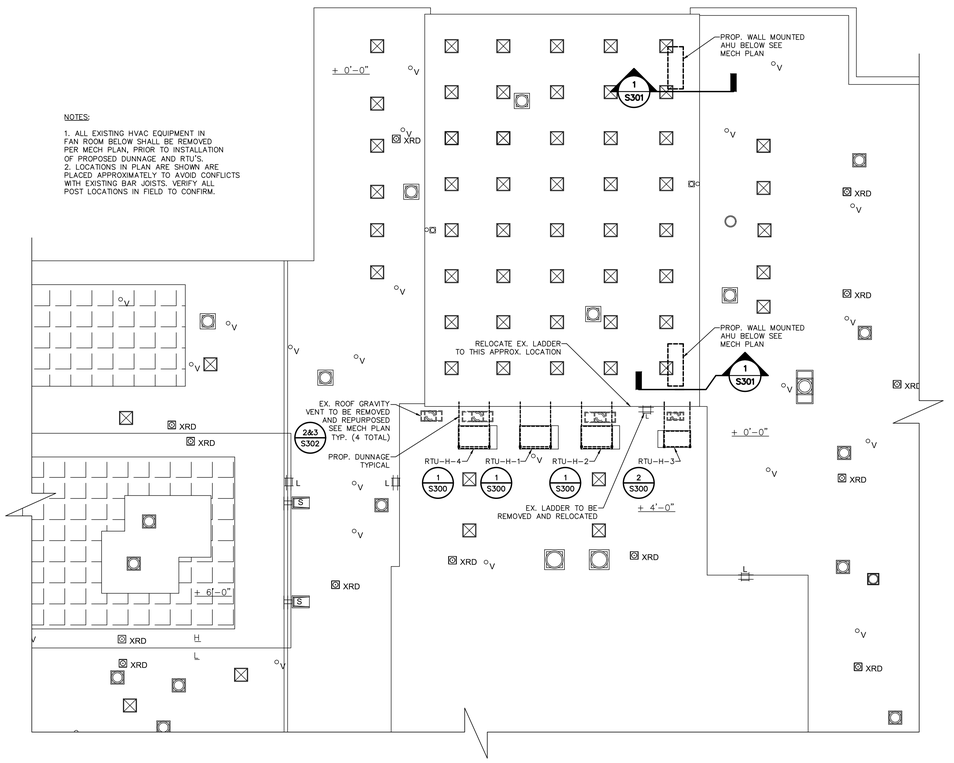
NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. #: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: KSA
REVIEWED BY: LAC
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: **STRUCTURAL NOTES**
DRAWING NUMBER: **S001**



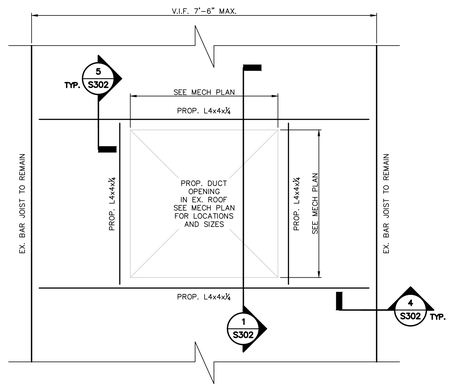
1 S101 PARTIAL 1ST FLOOR PLAN

SCALE: 1/16" = 1'



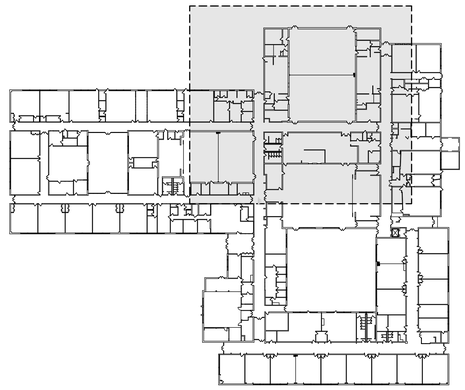
2 S101 PARTIAL ROOF PLAN

SCALE: 1/16" = 1'



3 S101 TYP. PROP. MECHANICAL ROOF OPENING PLAN VIEW

SCALE: NOT TO SCALE



4 S101 KEY PLAN

SCALE: NOT TO SCALE

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

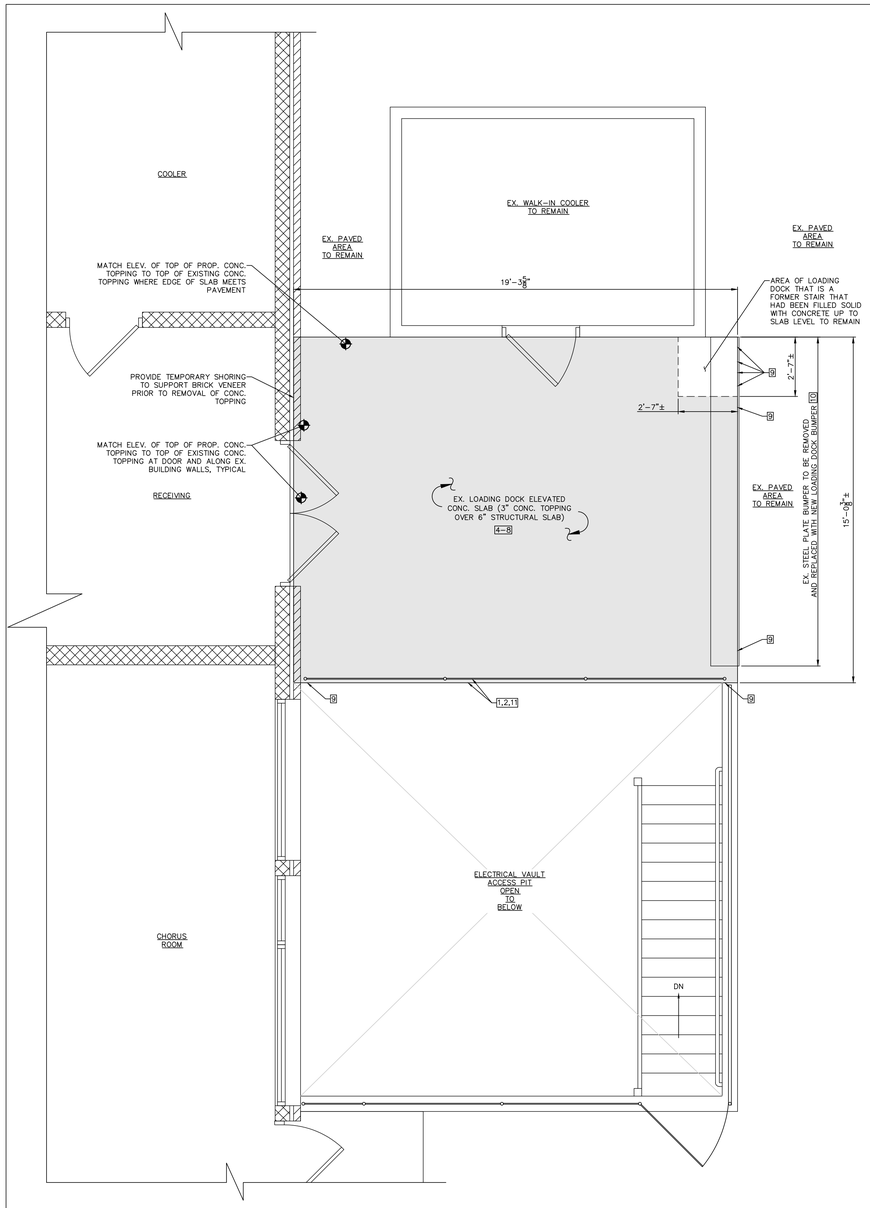
DATE: 11/12/2024

DRAWING NAME:

1ST FLOOR & ROOF DUNNAGE & HVAC SUPPORT PLANS

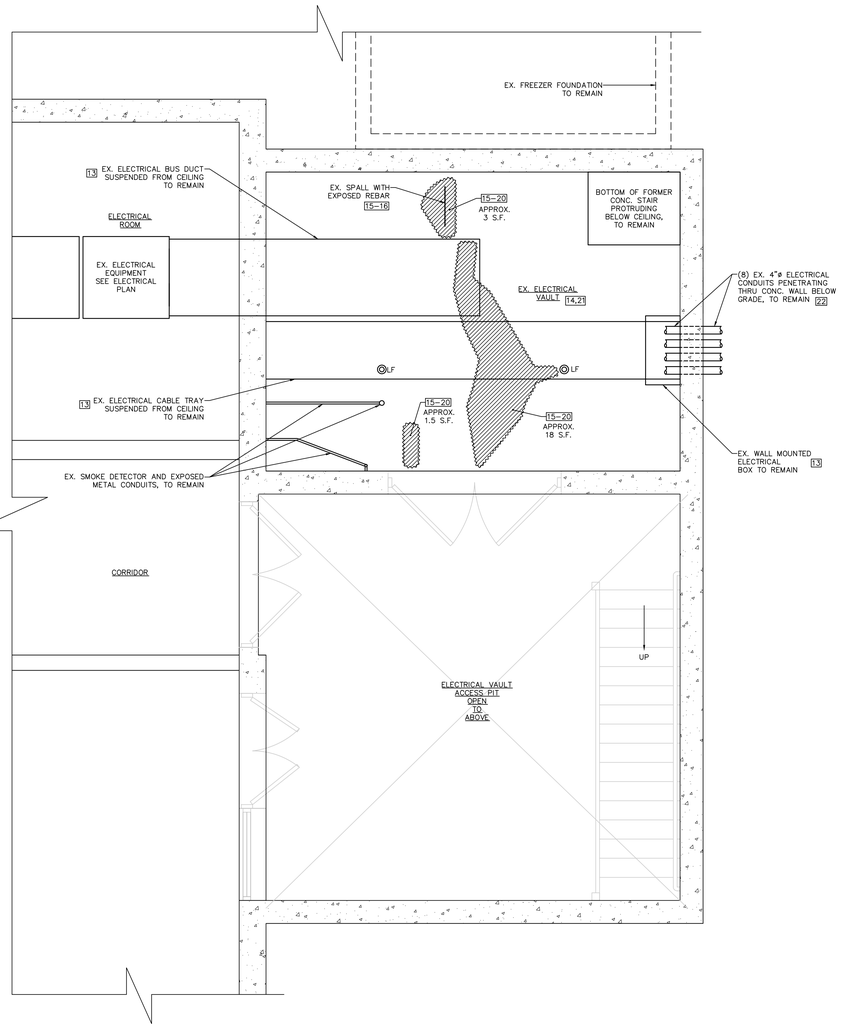
DRAWING NUMBER:

S101



1 S102 PARTIAL 1ST FLOOR PLAN AT LOADING DOCK

SCALE: ⅛" = 1'-0"



2 S102 PARTIAL REFLECTED CEILING PLAN

SCALE: ⅛" = 1'-0" (ELECTRICAL VAULT ONLY)

NOTES:

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH REPRESENTATIVES OF NEWBURGH CENTRAL SCHOOL DISTRICT.

2. ACCESS TO INTERIOR OF ELECTRICAL VAULT SHALL ONLY OCCUR WHEN SCHEDULED WITH REPRESENTATIVES OF THE NEWBURGH SCHOOL DISTRICT AND LABELLA ASSOCIATES.

3. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CENTRAL HUDSON GAS AND ELECTRIC AND OSHA STANDARDS. ALL SAFETY MEASURES WILL BE STRICTLY ADHERED TO WITHOUT EXCEPTION.

5. PRIOR TO ANY ENTRY INTO OR WORK INSIDE THE EXISTING ELECTRICAL VAULT, ELECTRIC SERVICE TO THE BUILDING WILL BE SUSPENDED AND ALL EXISTING ELECTRICAL EQUIPMENT SHALL BE DISCHARGED BY REPRESENTATIVES OF CENTRAL HUDSON GAS AND ELECTRIC. SEE ELECTRICAL PLANS FOR TEMPORARY POWER REQUIREMENTS TO BE UTILIZED DURING SUSPENSION OF ELECTRICAL SERVICE.

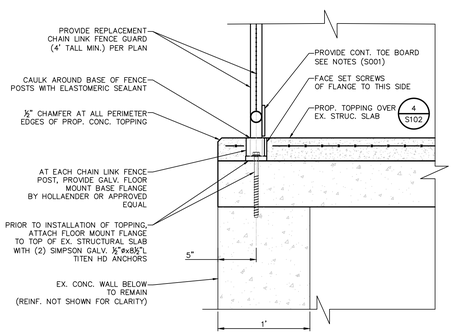
6. NO EXISTING FOUNDATION CONCRETE REINFORCEMENT SHALL BE CUT OR DAMAGED BY PROPOSED WORK WITHOUT WRITTEN APPROVAL OF PROJECT STRUCTURAL ENGINEER.

7. ALL SPECIFIED PRODUCTS SHALL BE INSTALLED IN STRICT ADHERENCE WITH MANUFACTURER SPECIFICATIONS. CONTRACTOR SHALL SCHEDULE PRESENTATION/S FOR PERSONNEL AND FIELD ADHESION TESTS WITH LOCAL SIKA REPRESENTATIVE TO ENSURE THAT PRODUCTS ARE INSTALLED PROPERLY. LOCAL SIKA REPRESENTATIVE: DAVID J. MASTAY (413) 222-9612.

8. SUBSTITUTIONS OF SPECIFIED PRODUCTS SHALL ONLY BE PERMITTED WITH WRITTEN APPROVAL OF STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMITTED REQUESTS AND TECHNICAL SPECIFICATIONS FOR SUBSTITUTIONS TO STRUCTURAL ENGINEER NO MORE THAN TWO WEEKS PRIOR TO PURCHASE OF PRODUCTS.

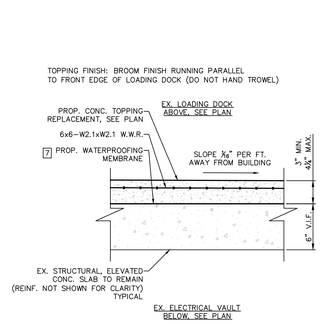
REPAIR MATERIAL QUANTITY SCHEDULE	
TYPE OF REPAIR	QUANTITIES
CONCRETE SPALL W/ CORRODED REBAR	3 S.F. OF SPALL WITH 70" OF REBAR
CRACKS SMALLER THAN ¼" WIDE	13 L.F. OF CRACKS (¾" DEEP)
CRACKS ¼" TO 2" WIDE	6 L.F. CRACKS (2" WIDE, 1" DEEP)

NOTE: QUANTITIES SHOWN ARE ESTIMATES BASED ON LIMITED VISUAL INSPECTION. 30% OVERAGES HAVE BEEN ADDED TO THESE ESTIMATES TO ACCOUNT FOR CONDITIONS IN THE FIELD THAT MAY BE INCONSISTENT WITH ESTIMATES.



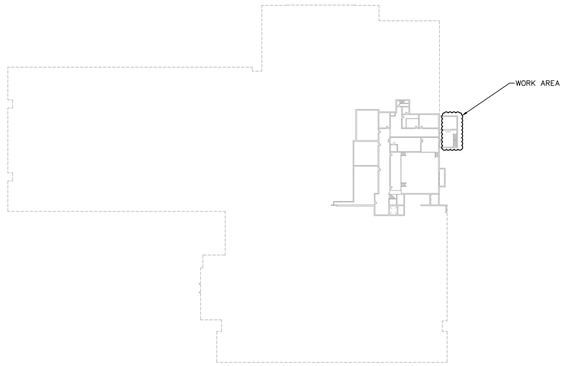
3 S102 TYP. SECTION CHAIN LINK FENCE GUARD

SCALE: 1½" = 1'-0"



4 S102 TYP. SECTION AT ELEVATED CONC. SLAB

SCALE: 1½" = 1'-0"



5 S102 BASEMENT KEY PLAN

SCALE: NOT TO SCALE

LEGEND	
EX. CONC. FOUNDATION TO REMAIN	
EX. CONC. FREEZER FOUNDATION TO REMAIN	
EX. CMU EXTERIOR WALL WITH EX. BRICK VENEER TO REMAIN	
EX. CMU WALL TO REMAIN	
PROP. CONC. TOPPING AREA OF EX. LOADING DOCK SLAB TO BE REMOVED & REPLACED	
EX. CEILING MOUNTED LIGHT FIXTURE TO REMAIN	@LF
EX. CHAINLINK FENCE GUARD	
AREAS OF VAULT CEILING IDENTIFIED AS REQUIRING REPAIR BY VISUAL INSPECTION	
SEE ASSOCIATED SCOPE OF WORK	3 1,2,3

SCOPE OF WORK:

1. REMOVE EXISTING CHAIN LINK FENCE GUARD AT EDGE OF LOADING DOCK.
2. INSTALL TEMPORARY FALL BARRIER PROTECTION, PER OSHA STANDARD AND REGULATIONS, ALONG EDGE OF SLAB AT ACCESS PIT.
3. INSIDE THE VAULT, THERE ARE LIGHT FIXTURES MOUNTED TO THE CEILING. THE CONDUITS FEEDING THESE VAULTS ARE INSIDE THE CONCRETE SLAB. PRIOR TO ANY DEMOLITION OF SLAB, LOCATE AND TURN OFF ELECTRICAL BREAKER/S TO ENSURE THAT ANY ELECTRIC WIRES INSIDE SLAB ARE DISCHARGED.
4. CAREFULLY REMOVE EXISTING 3"± OF CONCRETE TOPPING MAKING SURE NOT TO DAMAGE 6" STRUCTURAL CONCRETE SLAB. DO NOT REMOVE ANY CONCRETE FROM FORMER STAIR SECTION OF SLAB AREA. ONCE REMOVAL OF TOPPING IS COMPLETE, REPAIRS TO VAULT CEILING CAN COMMENCE (SEE #12)
5. THOROUGHLY CLEAN AND PREPARE TOP OF EXISTING STRUCTURAL CONCRETE SLAB AND IDENTIFY CRACKS AND DAMAGED AREAS.
6. FOR CRACK SMALLER THAN ¼" REPAIR WITH SIKADUR CRACK FIX. REPAIR LARGER AREAS, UP TO 2" THICK, WITH SIKADUR 32 HI-MOD EPOXY BONDING AGENT AND SIKAQUICK VOH (OR SIKAQUICK VOH LD). FOR AREAS LARGER THAN 2" CONTACT STRUCTURAL ENGINEER AND SCHEDULE A SITE INSPECTION FOR EVALUATION AND RECOMMENDATIONS.
7. ONCE REPAIR PRODUCTS HAVE FULLY CURED, APPLY SIKALASTIC HLM 5000 GC LIQUID APPLIED WATERPROOFING MEMBRANE SYSTEM OVER SURFACE OF ENTIRE STRUCTURAL SLAB AND UP THE FACE OF THE BUILDING WALL TO THE TOP OF THE TOPPING (3"-4½" THICK).
8. ONCE WATERPROOFING MEMBRANE HAS FULLY CURED, REPLACE CONCRETE TOPPING PER DETAIL. ELEVATION OF TOP OF TOPPING SHOULD MATCH EXISTING AS NEAR AS POSSIBLE WHILE PROVIDING A ⅛" PER FOOT SLOPE AWAY FROM BUILDING. COORDINATE TOPPING INSTALLATION AT FRONT EDGE WITH MANUFACTURER SPECIFICATIONS FOR PROPOSED DOCK BUMPER. (4 S102)
9. REPAIR EXTERIOR OF VAULT WALLS. AT LOCATIONS WHERE REPAIR IS LESS THAN 1½" THICKNESS, REPAIR WITH SIKAQUICK VOH BY HAND APPLICATION. REPAIR AREAS 1½" THICK OR LARGER PROVIDE FORMWORK AND INSTALL SIKACRETE 211 SCC PLUS. APPLY SIKADUR 32 HI-MOD EPOXY BONDING AGENT TO ALL EXISTING CONCRETE SURFACES BEFORE INSTALLATION OF SIKAQUICK VOH OR SIKACRETE 211 SCC PLUS. QUANTITIES FOR WALL REPAIRS SHALL BE VERIFIED IN THE FIELD.
10. ONCE WALL REPAIRS HAVE FULLY CURED, INSTALL (1) B612-123-AD-1 LOADING DOCK BUMPER BY LOADING DOCK SUPPLY LLC OR APPROVED EQUAL. ATTACH TO CONCRETE WITH (9) ¾"ø x 9¾"L HILTI HIT-Z-R 316 SS ANCHORS RODS DRILLED & GROUTED INTO CONCRETE WITH HILTI HIT-HY 200-A V3 INJECTABLE MORTAR. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. (3 S102)
11. INSTALL NEW CHAIN LINK FENCE GUARD ALONG EDGE OF SLAB FACING VAULT ACCESS PIT PER DETAIL.
12. SEE NOTES FOR SUSPENSION OF ELECTRIC SERVICE PRIOR TO ANY REPAIRS OF VAULT CEILING.
13. PROVIDE PROTECTIVE BARRIERS COVERED WITH PLASTIC DROP CLOTHS TO PREVENT ANY DEBRIS FALLING OR FURTHER MOISTURE FALLING ON ANY ELECTRICAL EQUIPMENT, WIRE, CABLE, TRAYS, OR BUSSES INSIDE VAULT.
14. REMOVE ANY FLAKING PAINT AND CORROSION FROM CEILING.
15. HAMMER SOUND TEST AFFECTED AREAS OF CONCRETE TO DETERMINE WHICH AREAS HAVE DETERIORATED TO A POINT WHERE REMOVAL AND REPAIR ARE REQUIRED. CAREFULLY HAND CHISEL AND REMOVE ANY CONCRETE THAT FAILS SOUND TESTING. REMOVE CONCRETE ¾" MIN. AROUND ANY EXPOSED REBAR MECHANICALLY CLEAN ANY EXPOSED REBAR. NOTIFY ENGINEER IF ANY REBAR HAS LOST MORE THAN 15% OF ITS GROSS CROSS SECTION. IF MORE THAN 15% SECTION LOSS, ADDITIONAL SPLICE BAR IS REQUIRED. CONTACT STRUCTURAL ENGINEER AND SCHEDULE SITE INSPECTION TO APPROVE TYPES OF REPAIRS REQUIRED FOR EACH DAMAGED AREA.
16. PRIME ALL EXPOSED STEEL REINFORCEMENT WITH SIKA ARMATEC 110 EPOCHEM.
17. APPLY SIKADUR 32 HI-MOD EPOXY BONDING AGENT TO EXISTING CONCRETE AT ALL REPAIR LOCATIONS.
18. APPLY SCRUB COAT OF SIKAQUICK VOH OR SIKAQUICK VOH LD TO CONCRETE SUBSTRATE PRIOR TO INSTALLATION OF REPAIR MORTARS.
19. REPAIR CRACKS SMALLER THAN ¼" WIDE WITH SIKADUR CRACK FIX.
20. REPAIR AREAS ¼" TO 2" WIDE/THICK WITH SIKAQUICK VOH OR SIKAQUICK VOH LD.
21. ONCE ALL REPAIR PRODUCTS HAVE FULLY CURED, APPLY TWO (2) COATS OF MASONRY PAINT TO ENTIRE VAULT CEILING. MATCH EXISTING COLOR AS NEAR AS POSSIBLE.
22. REMOVE COVER FROM EXISTING ELECTRICAL BOX TO EXPOSE CONDUIT PENETRATIONS THROUGH WALL. SCHEDULE SITE INSPECTION WITH ARCHITECT TO EVALUATE EXISTING WATERPROOFING. REMOVE EXISTING WATERPROOFING AROUND CONDUITS IN INTERIOR SIDE OF WALL AS DEEP INTO WALL AS POSSIBLE (2" MIN.). INSTALL SIKA LEAKMASTER LV-Z SWELLING SEALANT AROUND EACH CONDUIT AS DEEP AS POSSIBLE. IF POSSIBLE, SEALANT SHOULD FILL FULL SPACE AROUND EACH CONDUIT FOR ENTIRE THICKNESS OF EXISTING 12" THICK WALL.
23. PRIOR TO RESTORING ELECTRICITY TO VAULT, SCHEDULE FINAL SITE INSPECTION WITH STRUCTURAL ENGINEER, ELECTRICAL ENGINEER, AND ARCHITECT.

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

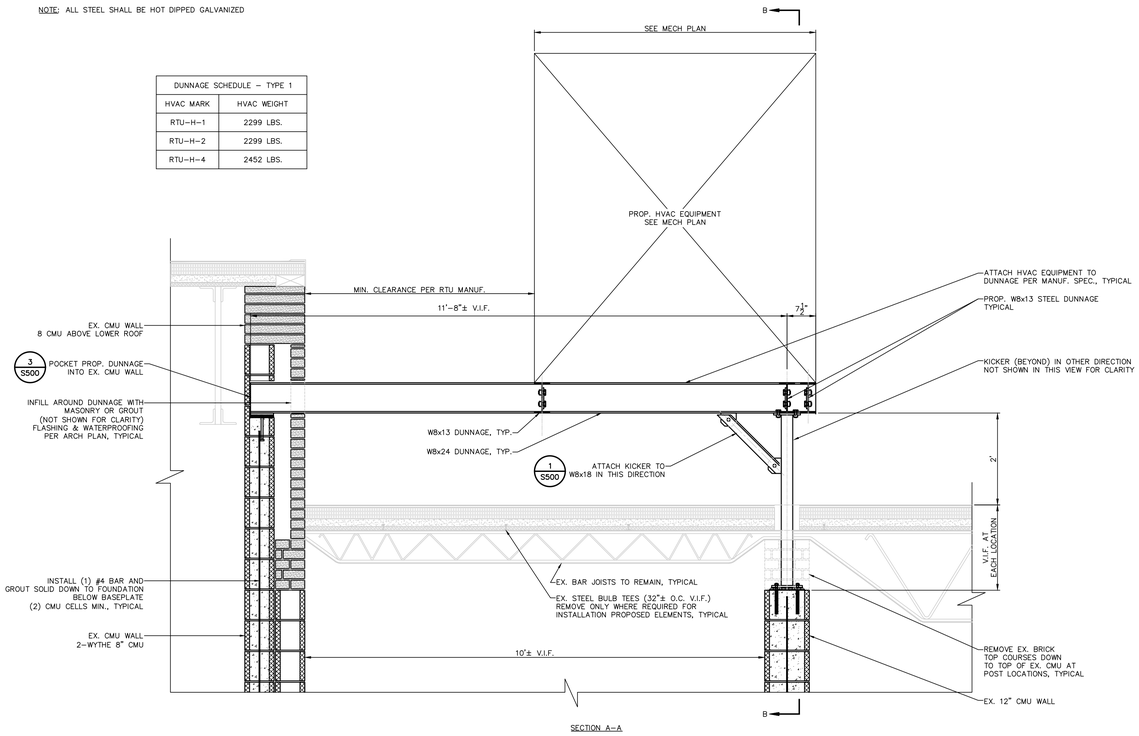
ELECTRICAL VAULT/LOADING DOCK CEILING & SLAB REPAIR PLAN

DRAWING NUMBER:

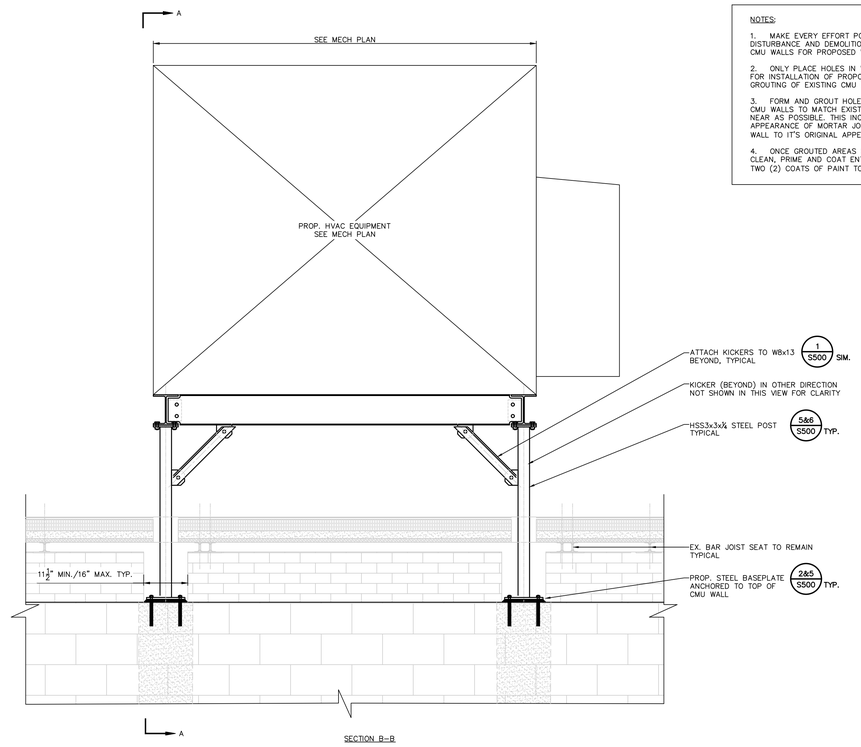
S102

NOTE: ALL STEEL SHALL BE HOT DIPPED GALVANIZED

DUNNAGE SCHEDULE – TYPE 1	
HVAC MARK	HVAC WEIGHT
RTU–H–1	2299 LBS.
RTU–H–2	2299 LBS.
RTU–H–4	2452 LBS.



SECTION A–A



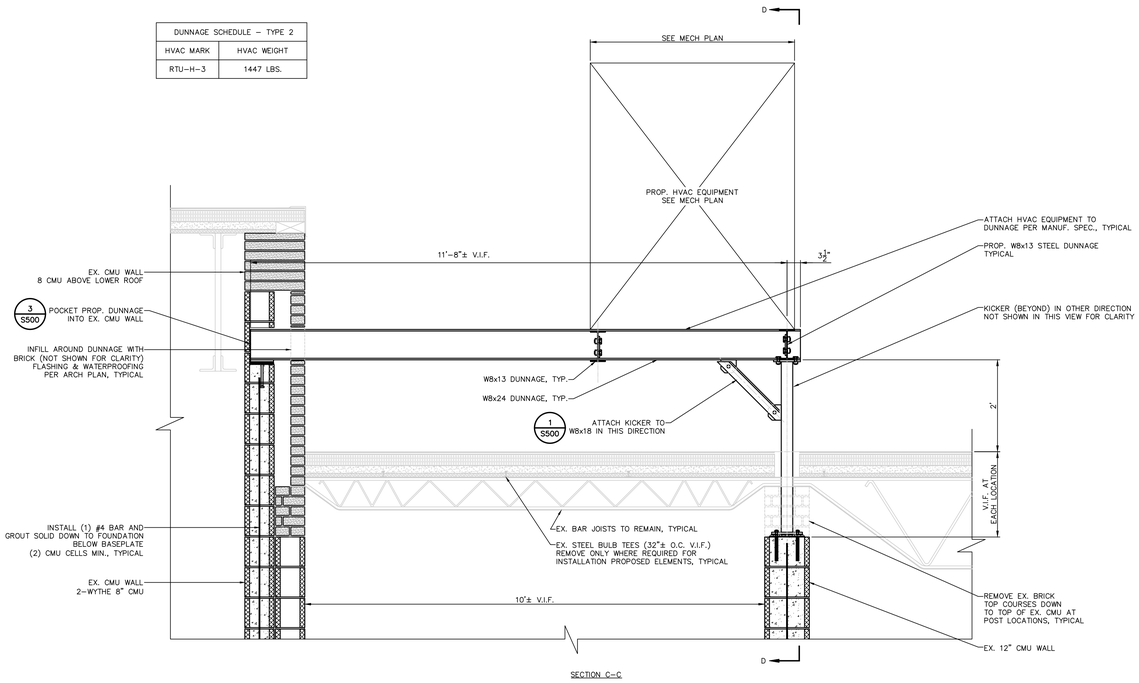
SECTION B–B

NOTES:

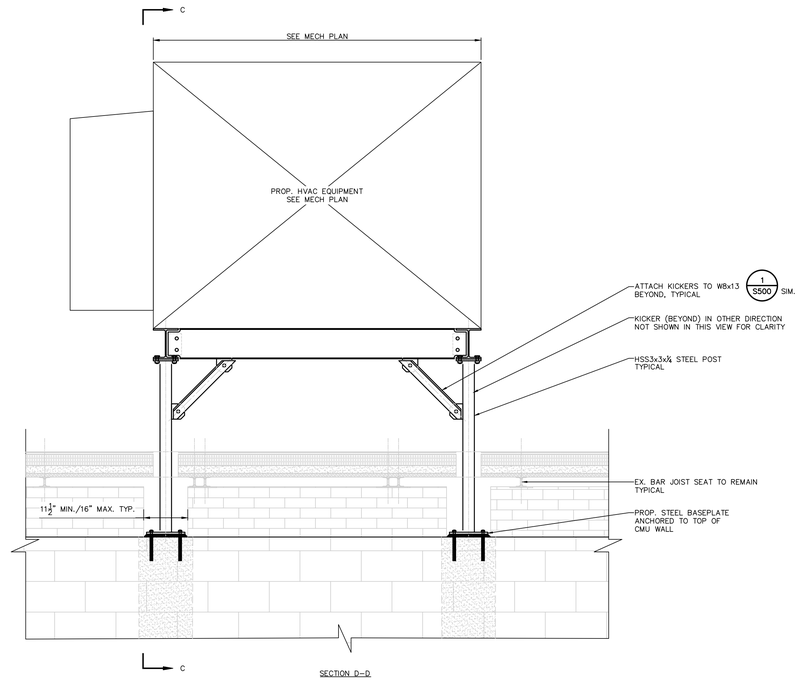
1. MAKE EVERY EFFORT POSSIBLE TO MINIMIZE DISTURBANCE AND DEMOLITION OF EXISTING CMU WALLS FOR PROPOSED WORK.
2. ONLY PLACE HOLES IN WALL AS REQUIRED FOR INSTALLATION OF PROPOSED DUNNAGE AND GROUTING OF EXISTING CMU CELLS.
3. FORM AND GROUT HOLES IN INTERIOR FACES OF CMU WALLS TO MATCH EXISTING FINISH OF WALL AS NEAR AS POSSIBLE. THIS INCLUDES THE FINISHED APPEARANCE OF MORTAR JOINTS THAT RETURNS WALL TO IT'S ORIGINAL APPEARANCE.
4. ONCE GROUTED AREAS HAVE CURED COMPLETELY, CLEAN, PRIME AND COAT ENTIRE INTERIOR WALL WITH TWO (2) COATS OF PAINT TO MATCH EXISTING COLOR.

1 S300 DUNNAGE SECTION - TYPE 1
SCALE: 3/4" = 1'

DUNNAGE SCHEDULE – TYPE 2	
HVAC MARK	HVAC WEIGHT
RTU–H–3	1447 LBS.



SECTION C–C



SECTION D–D

2 S300 DUNNAGE SECTION - TYPE 2
SCALE: 3/4" = 1'

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

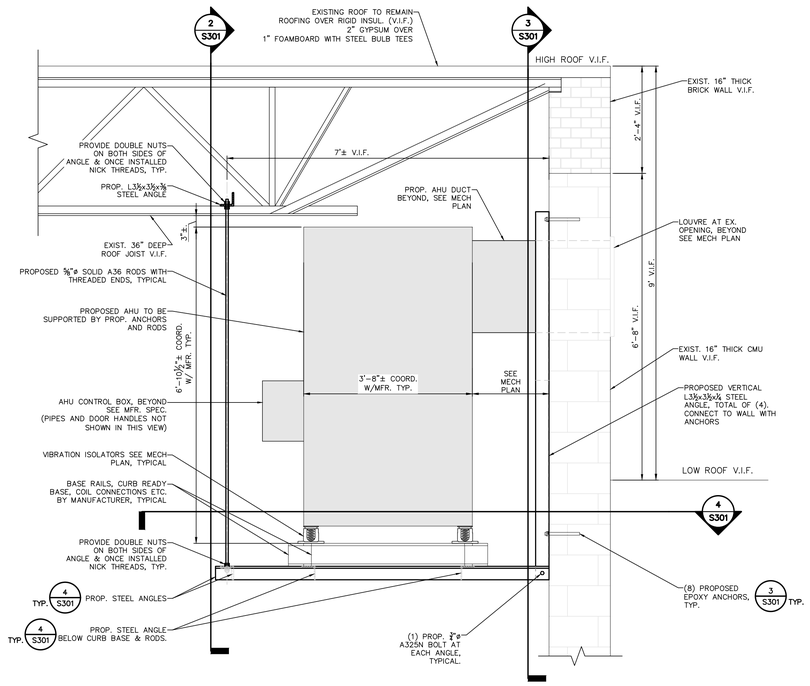
ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: SECTIONS

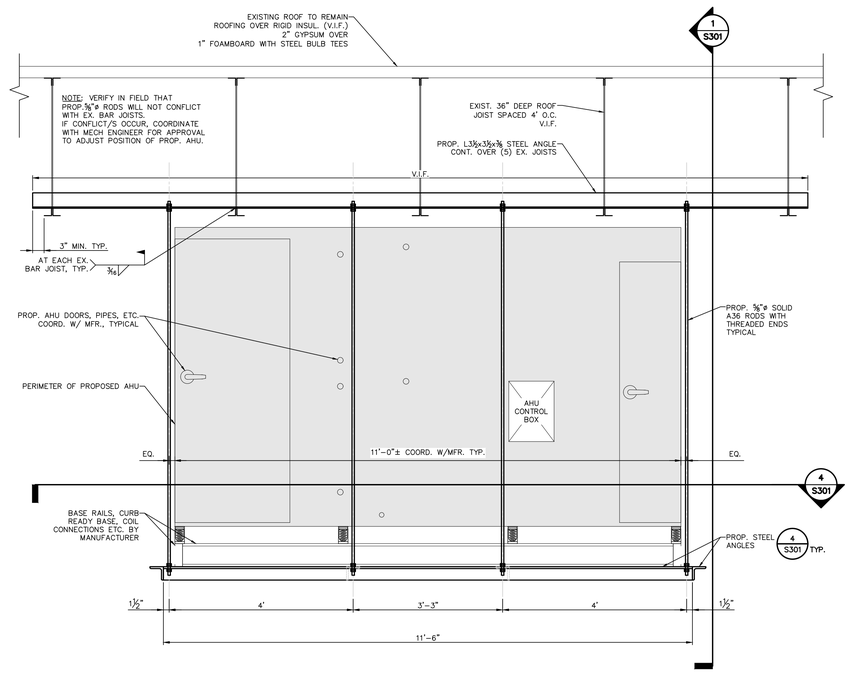
DRAWING NUMBER: S300

GYM AHU STRUCTURAL SCHEDULE	
HVAC MARK	HVAC WEIGHT
T-5	2192 LBS.
T-6	2192 LBS.



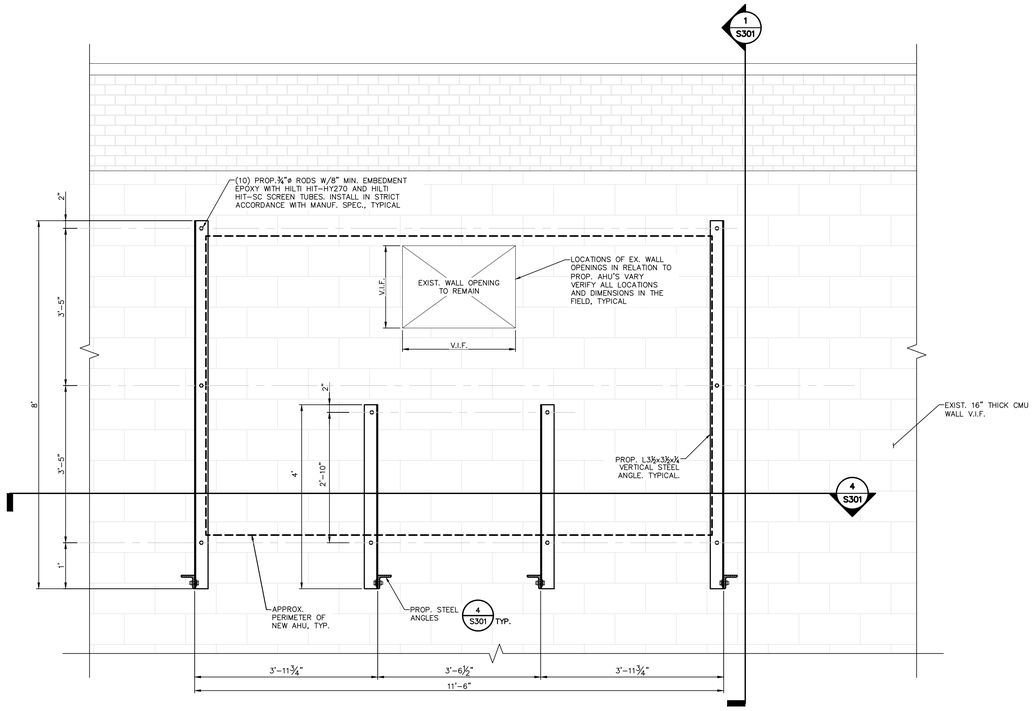
1 S301 SECTION AT NEW WALL MOUNTED UNIT

SCALE: 3/4" = 1'



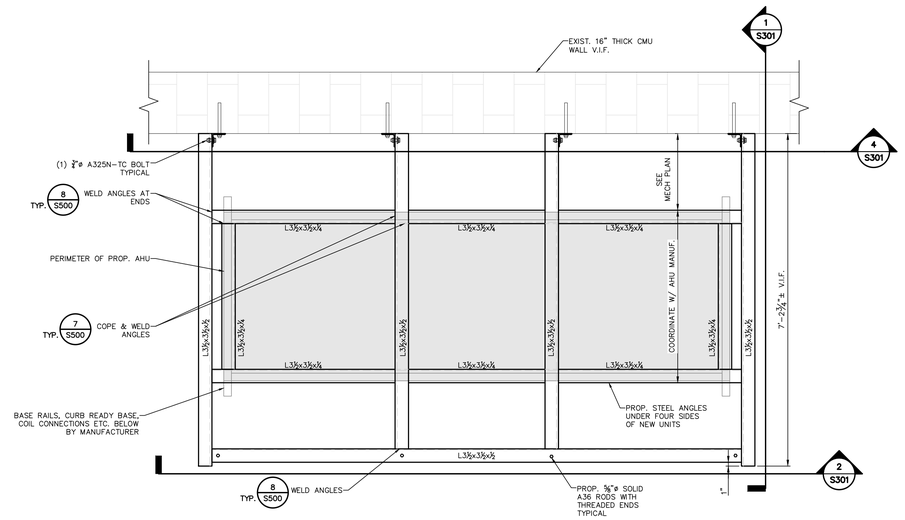
2 S301 ELEVATION AT NEW UNIT MOUNTED TO WALL

SCALE: 3/4" = 1'



3 S301 ELEVATION AT NEW UNIT MOUNTED TO WALL

SCALE: 3/4" = 1'



4 S301 PLAN VIEW OF NEW UNIT SUPPORT

SCALE: 3/4" = 1'

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

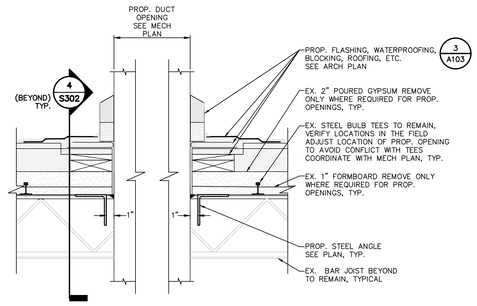
DATE: 11/12/2024

DRAWING NAME:

SECTIONS

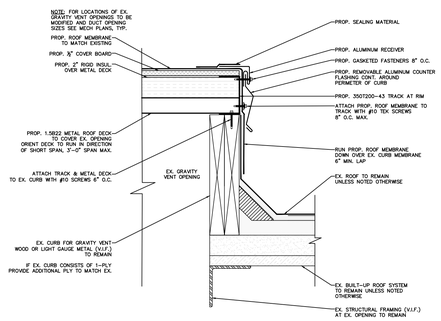
DRAWING NUMBER:

S301



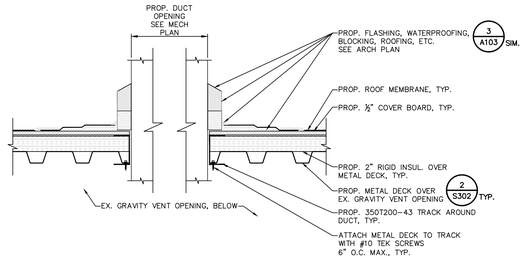
1 S302 TYP. SECTION THRU MECH OPENING

SCALE: NOT TO SCALE



2 S302 TYP. SECTION THRU EX. GRAVITY VENT ROOF CURB

SCALE: NOT TO SCALE



3 S302 TYP. SECTION THRU PROP. MECH OPENING AT EX. GRAVITY VENT

SCALE: NOT TO SCALE

4 S302 TYP. SECTION AT CONNECTION

SCALE: NOT TO SCALE

5 S302 TYP. SECTION AT CONNECTION

SCALE: NOT TO SCALE

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

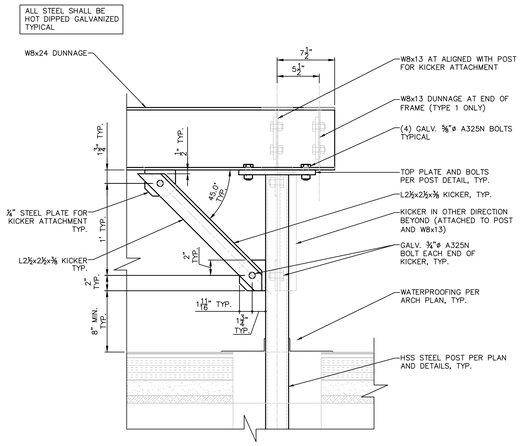
DATE: 11/12/2024

DRAWING NAME:

SECTIONS

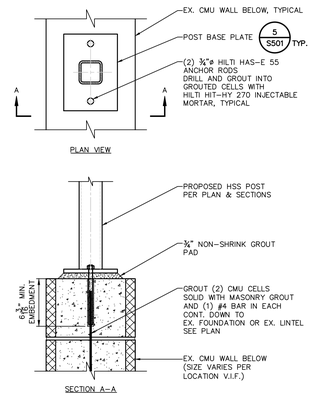
DRAWING NUMBER:

S302



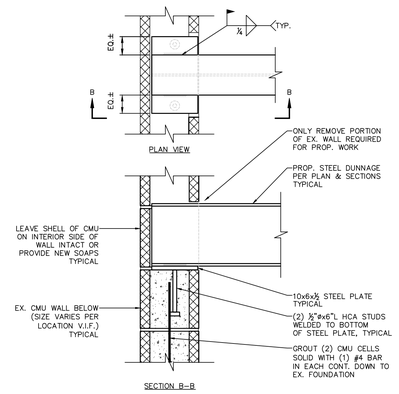
1 S500 **TYP. POST WITH KICKERS**

SCALE: 1½" = 1'



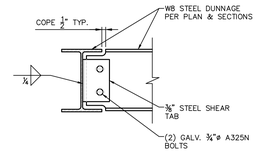
2 S500 **TYP. BASEPLATE TO CMU CONNECTION**

SCALE: 1½" = 1'



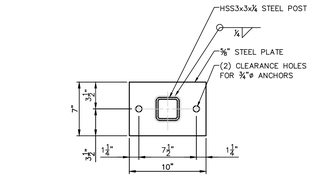
3 S500 **TYP. W8 TO CMU CONNECTION**

SCALE: 1½" = 1'



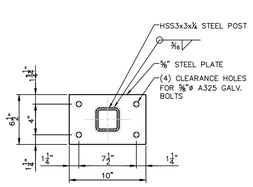
4 S500 **TYP. W8 TO W8 CONNECTION**

SCALE: 1½" = 1'



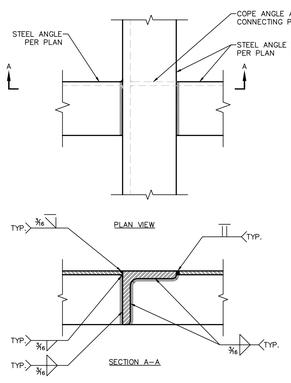
5 S500 **TYP. BASEPLATE FOR POST ON CMU**

SCALE: 1½" = 1'



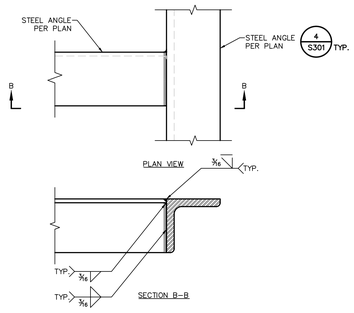
6 S500 **TYP. POST TOP PLATE**

SCALE: 1½" = 1'



7 S500 **WELDED ANGLE CONNECTION 1**

SCALE: 3" = 1'



8 S500 **WELDED ANGLE CONNECTION 2**

SCALE: 3" = 1'

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: **DETAILS**

DRAWING NUMBER: **S500**

DRAWING SYMBOLS

CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
GHR	GLYCOL HOT WATER RETURN
GHS	GLYCOL HOT WATER SUPPLY
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
C	CONDENSATE
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
	DIRECTION OF FLOW
DN	DIRECTION OF PITCH
R	REFRIGERANT
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RG	REFRIGERANT GAS
SV	STEAM VENT

HPLR	HEAT PUMP LOOP RETURN
HPLS	HEAT PUMP LOOP SUPPLY
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
MU	MAKE-UP WATER
NG	NATURAL GAS
PC	PUMPED CONDENSATE
VAC	VACUUM
IW	INDIRECT WASTE

EXISTING DUCTWORK, PIPE, EQUIPMENT

NEW DUCTWORK, PIPE, EQUIPMENT

DUCTWORK, PIPE, EQUIPMENT TO BE REMOVED

PIPE TURNED UP

PIPE TURNED DOWN

BRANCH OFF TOP OF PIPE

BRANCH OFF BOTTOM OF PIPE

REDUCER

PIPE BREAK

BALL VALVE

BUTTERFLY VALVE

GATE VALVE

SHUT OFF VALVE (GATE, BALL, OR BUTTERFLY - REFER TO SPECS)

CHECK VALVE

BALANCE VALVE

ANGLE VALVE

PRESSURE REDUCING VALVE

STEAM TRAP

MOTOR OR SOLENOID CONTROL VALVE

MOTOR OR SOLENOID CONTROL VALVE (3-WAY)

TRIPLE DUTY VALVE

RELIEF VALVE

STRAINER

UNION

PRESSURE GAUGE

PUMP

EQUIPMENT TO BE REMOVED

VRF FAN COIL CASSETTE UNIT

REMOVE TO THIS POINT)

NEW CONNECTION TO EXISTING

SECTION CALLOUT (A / M-2)

DETAIL NUMBER (A / M-2)

DEMOLITION KEYNOTE (1)

KEYNOTE (1)

RETURN AIR

SUPPLY AIR

DUCT (DIMENSIONS SHOWN IN DUCT. DIMENSIONS IN INCHES.) (18/8)

DUCT (DIMENSIONS SHOWN BY LEADER. DIMENSIONS IN INCHES.) (18/8)

FLEX DUCT

DUCT SECTION - SUPPLY AIR

DUCT SECTION - EXHAUST AIR

DUCT SECTION - RETURN AIR

VOLUME DAMPER

14" ROUND DUCT (14" Ø)

18" x 8" FLAT OVAL DUCT (18/8 OVAL)

NOTE:
NOT ALL SYMBOLS, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/ OR EXCLUSIONS OF ANY PARTICULAR ITEM FROM THIS PROJECT.

LINED DUCT (DIM. IS INTERNAL) (18/8)

MITERED ELBOW W/ TURNING VANES

WALL OR DUCT MOUNTED SUPPLY GRILLE

WALL OR DUCT MOUNTED RETURN OR EXHAUST GRILLE

FIRE DAMPER (FD / AD)
ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

SMOKE DAMPER (SD / AD)
ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

COMBINATION FIRE / SMOKE DAMPER (F/S / AD)
ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

MOTOR OPERATED DAMPER (M)

TEMPERATURE SENSOR (T)

SENSOR (S)

HUMIDISTAT (H)

CARBON DIOXIDE SENSOR (CO2)

EXHAUST GRILLE

SUPPLY DIFFUSER

RETURN GRILLE

REGISTER OR GRILLE - TOP NUMBER REPRESENTS TAG, SEE SCHEDULE; BOTTOM NUMBER REPRESENTS CFM. (8 / 750)

DIFFUSER - LETTER REPRESENTS TAG, SEE SCHEDULE; NUMBER REPRESENTS CFM (A / 125)

GENERAL NOTES

DUCTWORK GENERAL NOTES

1 HVAC CONTRACTOR TO PROVIDE CRANE AND NECESSARY EQUIPMENT TO HOIST ROOF MOUNTED HVAC EQUIPMENT FROM SITE TO FINAL ROOF LOCATION. GENERAL CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS REQUIRED TO ACCOMMODATE HVAC EQUIPMENT OPENINGS AND SET CURBS. HVAC CONTRACTOR TO COORDINATE EXACT LOCATION OF PENETRATIONS WITH G.C. AND SHALL ASSIST WITH SETTING ALL HVAC EQUIPMENT ROOF CURBS. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY CAP OF ALL ROOF PENETRATIONS IN INTERIM FROM TIME PENETRATIONS ARE COMPLETE TO TIME EQUIPMENT IS SET ON ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL EQUIPMENT CURBS AND OTHER HVAC RELATED ROOF PENETRATIONS. HVAC CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY CAP WHEN EQUIPMENT IS SET IN PLACE.

2 PROVIDE 45 DEGREE SHOE-TAP FITTING AND VOLUME DAMPER AT ALL BRANCH DUCT TAKE-OFFS. (TOP, SIDE AND BOTTOM) FOR SUPPLY, RETURN AND EXHAUST AIR, UNLESS SHOWN OR NOTED OTHERWISE. VOLUME DAMPERS SHALL BE OMITTED FROM VAV INLET BRANCH DUCTWORK.

3 COORDINATE HVAC INSTALLATION WITH STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.

4 INSULATE OR LINE DUCTWORK AS SPECIFIED IN THE MECHANICAL INSULATION AND METAL DUCTS SPECIFICATIONS OR NOTED ON DRAWINGS. NOTE THAT DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE NET CLEAR DIMENSIONS.

5 ALL 90 DEGREE RECTANGULAR ELBOWS AND DUCTWORK TEES SHALL BE HARD MITERED WITH FACTORY TURNING VANES. TURNING VANES SHALL BE OMITTED FROM AIR TRANSFER DUCT ELBOWS.

6 ALL DUCTWORK PASSING THROUGH NON-FIRE RATED WALLS TO BE SEALED AROUND PERIMETER (BOTH SIDES) WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.

7 INLET OF VAV BOX TO BE ARRANGED SUCH THAT THERE IS NO RESTRICTION OF AIRFLOW. THERE SHALL BE A MINIMUM OF THREE DUCT DIAMETERS OF STRAIGHT DUCT (FLEX DUCT WILL NOT BE PERMITTED) UPSTREAM OF THE INLET. INLET DUCT SIZE TO BE SAME SIZE AS VAV BOX INLET COLLAR UNLESS NOTED OTHERWISE. REFER TO VAV BOX INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

8 HVAC CONTRACTOR TO PROVIDE ALL WALL & ROOF PENETRATIONS 8"x8" OR SMALLER. ALL PENETRATIONS LARGER THAN 8"x8" IS THE RESPONSIBILITY OF THE G.C. COORDINATE ALL 8"x8" OR LARGER PENETRATION LOCATIONS WITH G.C. LINTELS (BY G.C.) REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. PENETRATIONS AND LINTEL LOCATIONS TO BE COORDINATED WITH G.C. AND DOCUMENTED ON COORDINATION DRAWINGS.

9 BALANCING CONTRACTOR TO SET MINIMUM OUTSIDE AIR DAMPER POSITION TO MEET VENTILATION AIR QUANTITIES REQUIRED AS SHOWN ON PLANS OR LISTED IN EQUIPMENT SCHEDULES.

10 NATURAL GAS PIPING WHERE REQUIRED SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR, WHICH SHALL INCLUDE FINAL CONNECTIONS TO HVAC EQUIPMENT. COORDINATE ALL EQUIPMENT LOCATIONS THAT REQUIRE NATURAL GAS WITH THE PLUMBING CONTRACTOR.

11 ALL SUPPORT OF EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE STRUCTURAL STEEL WHERE REQUIRED IN ORDER TO SUPPORT EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES WHERE THE BUILDING STRUCTURE SPACING IS TOO GREAT TO ALLOW DIRECT SUPPORT. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMATION OF ALL SUPPORTS AND SHALL OBTAIN THE PROFESSIONAL SERVICE OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND FURNISH SEALED DRAWINGS AND DETAILS ILLUSTRATING SUCH SUPPORTS AND COMPLIANCE METHODS.

12 INSULATE ALL DUCTWORK PER NYS ENERGY CODE.

MECHANICAL SHEET LIST

Sheet Number	Sheet Name	Drawn By	Approved By
M001	MECHANICAL LEGEND SHEET	DRM	MB
M002	VENTILATION TABLE	DRM	MB
MD101	FIRST FLOOR DEMOLITION PLAN	DRM	MB
MD102	SECOND FLOOR DEMOLITION PLAN	DRM	MB
MD103	ROOF DEMOLITION PLAN	DRM	MB
M101	FIRST FLOOR DUCTWORK PLAN	DRM	MB
M102	SECOND FLOOR DUCTWORK PLAN	DRM	MB
M103	ROOF EQUIPMENT PLAN	DRM	MB
M201	FIRST FLOOR PIPING PLAN	DRM	MB
M202	SECOND FLOOR PIPING PLAN	DRM	MB
M501	MECHANICAL DETAILS	DRM	MB
M601	MECHANICAL SCHEDULES	DRM	MB
M701	MECHANICAL CONTROLS	DRM	MB

Grand total: 13

APPLICABLE CODES

1 BUILDING CODE OF NEW YORK STATE
2 ENERGY CODE OF NEW YORK STATE
3 MECHANICAL CODE OF NEW YORK STATE
4 FIRE CODE OF NEW YORK STATE
5 PLUMBING CODE OF NEW YORK STATE
6 ENERGY CONSERVATION CODE OF NEW YORK STATE
7 ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1
8 NATIONAL ELECTRIC CODE
9 NATIONAL FIRE CODE NFPA 13

EQUIPMENT DESIGNATIONS

ACU	AIR CONDITIONING UNIT
AHU	AIR HANDLING UNIT
AD	ACCESS DOOR
AS	AIR SEPARATOR
BDD	BACK DRAFT DAMPER
B	BOILER
CA	AIR COMPRESSOR
CAV	CONSTANT AIR VOLUME BOX
CC	COOLING COIL
CFP	CHEMICAL FEED PUMP
CH	CHILLER
CHP	CHILLED WATER PUMP
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM UNIT
CRU	CONDENSATE RETURN UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DHW	DOMESTIC WATER HEATER
EF	EXHAUST FAN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
FP	FIRE PUMP
FT	FINNED TUBE
HC	HEATING COIL
HP	HEAT PUMP
HU	HUMIDIFIER
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
L	LOUVER
MAU	MAKE UP AIR UNITS
MD	MOTORIZED DAMPER
P	PUMP
PHC	PREHEAT COIL
PPU	PUMPING PACKAGED UNIT
PRG	GAS PRESSURE REGULATOR
PRV	PRESSURE REDUCING VALVE
R	REGISTER
RCP	RADIANT CEILING PANEL
RTU	ROOF TOP UNIT
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME BOX
VD	VOLUME DAMPER
VFD	VARIABLE SPEED DRIVE
WU-G	WINDOW UNIT MOUNTED IN GLASS
WU-W	WINDOW UNIT MOUNTED IN WALL
WS	WATER SOFTENER

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

ABBREVIATIONS

%	PERCENT
AC	ALTERNATING CURRENT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
AMB	AMBIENT
AMP	AMPERE (AMP.)AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APPROX	APPOXIAMTE (LY)
AVG	AVERAGE
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BO	BOTTOM OF
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BV	BALANCING VALVE
CAP	CAPACITY
CIP	CAST IRON PIPE
CLG	CEILING
CLR	CLEAR
CO	CLEANOUT or CARBON MONOXIDE
COL	COLUMN
CONN	CONNECTION
CONC	CONCRETE
CONT	CONTINUOUS
CU FT	CUBIC FEET
CV	VALVE FLOW COEFFICIENT
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DETECTOR CHECK VALVE
DCW	DOMESTIC COLD WATER
DEMO	DEMOLISH or DEMOLITION
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWH	DOMESTIC WATER HEATER
DWV	DRAIN, WASTE, & VENT
DWG	DRAWING
(E)	EXISTING
ENGR	ENGINEER
EQ	EQUAL
EST	ESTIMATED
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
°F	DEGREES FAHRENHEIT
FA	FREE AREA
FIN	FINISHED
FL	FLOOR
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT OR FEET
FUT	FUTURE
GA	GAGE OR GAUGE
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HR	HOUR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	FREQUENCY
ID	DIAMTER, INSIDE
IN	INCH
INSUL	INSULATION
INT	INTERIOR
IPS	IRON PIPE SIZE
INV	INVERT
KW	KILOWATT
KWH	KILOWATT HOUR
LBS	POUNDS
LF	LINEAR FEET
LG	LENGTH
LOC	LOCATION
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MATL	MATERIAL
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPT	NATIONAL PIPE TREAD
NRS	NON-RISING STEM
NTS	NOT TO SCALE
OC	ON CENTER
OD	DIAMETER, OUTSIDE
OS&Y	OUTSIDE SCREW AND YOKE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PH	PHASE (ELECTRICAL)
PRESS	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GUAGE
PRV	PRESSURE REDUCING VALVE
RCVR	RECEIVER
RECIRC	RECIRCULATE
RHW	HOT WATER RE-CIRCULATION
RO	ROUGH OPENING
RPDA	REDUCED-PRESSURE DETECTOR ASSY.
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED-PRESSURE ZONE
SCH	STEAM CAPTURE HOOD
SPEC	SPECIFICATION
SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH (INCHES)
STD	STANDARD
SUCT	SUCTION
TSTAT	THERMOSTAT
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL CONTRACTOR
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TO	TOP OF
TYP	TYPICAL
V	VOLT
VAC	VACUUM
VAR	VARIABLE
VEL	VELOCITY
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WATT
W/	WITH
W/O	WITH OUT
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTER
WM	WATER METER
WPD	WATER PRESSURE DROP
WT	WEIGHT
WWP	WORKING WATER PRESSURE

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

MECHANICAL LEGEND SHEET

DRAWING NUMBER:

M001

11/11/2024 3:57:52 PM

Room Name	Unit	Square Footage	Type	Type	Occupancy Density/1000sf	Max Occupancy	OA/person	CFM/SF	Code OA (cfm)	Provided OA (cfm)
1 - Kindergarten Classroom	UV-1	986	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	368.32	500
2 - Kindergarten Classroom	UV-2	986	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	368.32	500
2C - Kindergarten Reading Rm	UV-2C	368	Classroom	E - Classrooms (ages 5-8)	25	10	10	0.12	144.16	210
3 - Kindergarten Classroom	UV-3	990	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	368.8	500
4 - Kindergarten Classroom	UV-4	992	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	369.04	500
5 - Kindergarten Classroom	UV-5	880	Classroom	E - Classrooms (ages 5-8)	25	22	10	0.12	325.6	500
6 - Kindergarten Classroom	UV-6	880	Classroom	E - Classrooms (ages 5-8)	25	22	10	0.12	325.6	500
7 - Kindergarten Classroom	UV-7	820	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	308.4	420
8 - 1st Grade Classroom	UV-8	845	Classroom	E - Classrooms (ages 5-8)	25	22	10	0.12	321.4	470
9A- 1st Grade Classroom	UV-9A	562	Classroom	E - Classrooms (ages 5-8)	25	15	10	0.12	217.44	210
9B - 1st Grade Classroom	UV-9B	562	Classroom	E - Classrooms (ages 5-8)	25	15	10	0.12	217.44	210
10 - 1st Grade Classroom	UV-10	840	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	310.8	470
11 - 1st Grade Classroom	UV-11	840	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	310.8	470
12 - 1st Grade Classroom	UV-12	840	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	310.8	470
13 - 1st Grade Classroom	UV-13	840	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	310.8	470
14 - 1st Grade Classroom	UV-14	840	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	310.8	470
15 - 1st Grade Classroom	UV-15	830	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	309.6	420
17 - Classroom	UV-17	755	Classroom	E - Classrooms (ages 5-8)	25	19	10	0.12	280.6	470
120 - Art Room	UV-120	1088	Art Room	E - Art classroom	20	22	10	0.18	415.84	420
121 - 2nd Grade Classroom	UV-121	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
122 - Art Room	UV-122	1012	Art Room	E - Art classroom	20	21	10	0.18	392.16	420
123 - 2nd Grade Classroom	UV-123	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
124 - 3rd Grade Classroom	UV-124	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
125A - 4th Grade Classroom	UV-125A	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
125B - 4th Grade Classroom	UV-125B	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
126A - 3rd Grade Classroom	UV-126A	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
126B - 3rd Grade Classroom	UV-126B	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
127 - 2nd Grade Classroom	UV-127	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
128 - Primary Playroom	UV-128	5015	Multi-Use Assembly	E - Multiuse assembly	100	315	7.5	0.06	2663.4	2796
129 - 2nd Grade Classroom	UV-129	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
131A - 2nd Grade Classroom	UV-131A	785	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.2	470
131B - 2nd Grade Classroom	UV-131B	785	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.2	470
133 - 2nd Grade Classroom	UV-133	800	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	296	470
135A - 3rd Grade Classroom	UV-135A	420	Classroom	E - Classrooms (ages 5-8)	25	11	10	0.12	160.4	210
135B - 3rd Grade Classroom	UV-135B	420	Classroom	E - Classrooms (ages 5-8)	25	11	10	0.12	160.4	210
137 - 3rd Grade Classroom	UV-137	788	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.56	470
139 - 3rd Grade Classroom	UV-139	788	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.56	470
141 - 3rd Grade Classroom	UV-141	788	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.56	470
220 - 5th Grade	UV-220	900	Classroom	E - Classrooms (ages 5-8)	25	23	10	0.12	338	420
221 - 5th Grade	UV-221	785	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.2	470
222 - 4th Grade	UV-222	800	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	296	500
223 - 5th Grade	UV-223	785	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.2	470
224 - Music Room	UV-227	760	Classroom	E - Classrooms (ages 5-8)	25	19	10	0.12	281.2	470
225 - 5th Grade	UV-225	780	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	293.6	470
226 -3rd Grade	UV-226	780	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	293.6	470
227A - 6th Grade Classroom	UV-227A	1020	Classroom	E - Classrooms (ages 5-8)	25	26	10	0.12	382.4	500
228 - 3rd Grade	UV-228	780	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	293.6	470
229 - 6th Grade Classroom	UV-229	1000	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	370	470
231 - 6th Grade Classroom	UV-231	1000	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	370	470
233 - 6th Grade Classroom	UV-233	1030	Classroom	E - Classrooms (ages 5-8)	25	26	10	0.12	383.6	470
235 - Classroom	UV-235	1250	Classroom	E - Classrooms (ages 5-8)	25	32	10	0.12	470	500
237A - 6th Grade Classroom	UV-237A	590	Classroom	E - Classrooms (ages 5-8)	25	15	10	0.12	220.8	210
237B - 6th Grade Classroom	UV-237B	620	Classroom	E - Classrooms (ages 5-8)	25	16	10	0.12	234.4	210
239 - 4th Grade Classroom	UV-239	800	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	296	470
Chorus Room	UV-109	985	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	368.2	420
Band	UV-110	1168	Classroom	E - Classrooms (ages 5-8)	25	30	10	0.12	440.16	470
Resource	UV-224	375	Classroom	E - Classrooms (ages 5-8)	25	10	10	0.12	145	210
Gym	T-5 & T-6	6625	Multi-Use Assembly	E - Multiuse assembly	100	600	7.5	0.06	4897.5	4960
Cafetorium	RTU-H-2 & RTU-H-3 & RTU-H-4	4910	Dining Room	FB - Dining rooms	70	300	7.5	0.18	3133.8	3130
Stage	RTU-H-1	1100	Stage	TH - Stages, studios	70	50	10	0.06	566	572

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
2	9/3/2024	ADDENDUM#2

Revisions

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

VENTILATION TABLE

DRAWING NUMBER:

M002

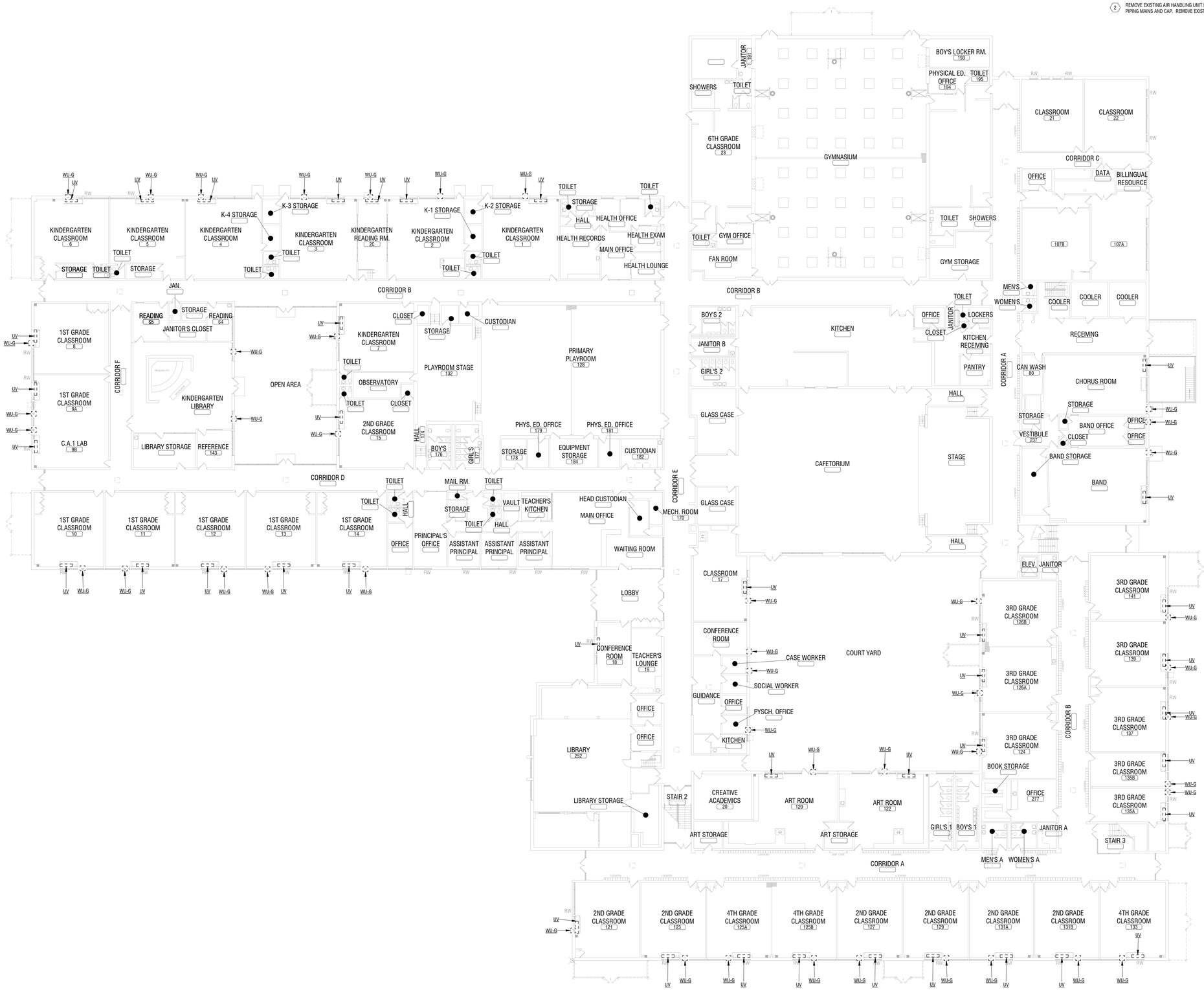
11/1/2024 3:57:53 PM

MECHANICAL NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING OUTSIDE AIR LOUVER TO REMAIN FOR RECONNECTION.
2. REMOVE EXISTING WINDOW AIR CONDITIONING UNIT IN ITS ENTIRETY.

KEY NOTES:

1. REMOVE EXISTING AIR HANDLING UNIT. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING OUTSIDE AIR DUCTWORK TO REMAIN FOR RECONNECTION.
2. REMOVE EXISTING AIR HANDLING UNIT IN ITS ENTIRETY. REMOVE EXISTING HWS/HWR PIPING AND ASSOCIATED VALVES BACK TO PIPING MAINS AND CAP. REMOVE EXISTING OUTSIDE AIR DUCTWORK UP TO LOUVER/ROOF PENTHOUSE AND CAP.



1 MD101 1ST FLOOR DEMO PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 3:57:55 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

FIRST FLOOR DEMOLITION PLAN

DRAWING NUMBER:

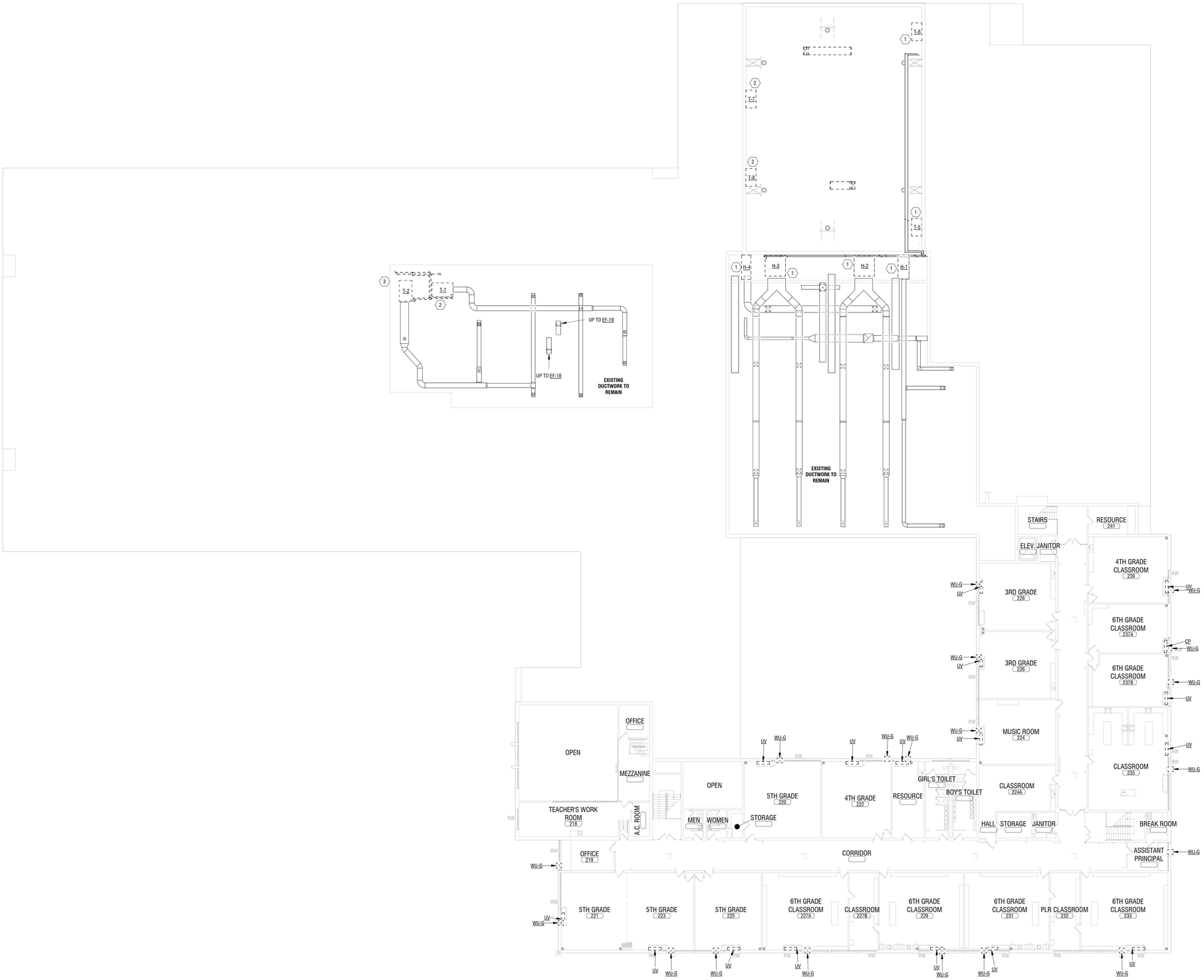
MD101

MECHANICAL NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING OUTSIDE AIR LOUVER TO REMAIN FOR RECONNECTION.
2. REMOVE EXISTING WINDOW AIR CONDITIONING UNIT IN ITS ENTIRETY.

KEY NOTES:

1. REMOVE EXISTING AIR HANDLING UNIT. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING OUTSIDE AIR DUCTWORK TO REMAIN FOR RECONNECTION.
2. REMOVE EXISTING AIR HANDLING UNIT. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK TO REMAIN FOR RECONNECTION.



1 MD102 2ND FLOOR DEMO PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR DEMOLITION PLAN

DRAWING NUMBER:

MD102

11/11/2024 3:57:56 PM

MECHANICAL NOTES:

1. REMOVE EXHAUST. MAINTAIN EXISTING ROOFCURB AND DUCTWORK FOR RECONNECTION.

1 MD103 ROOF MECHANICAL DEMOLITION PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 3:57:56 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: ROOF DEMOLITION PLAN

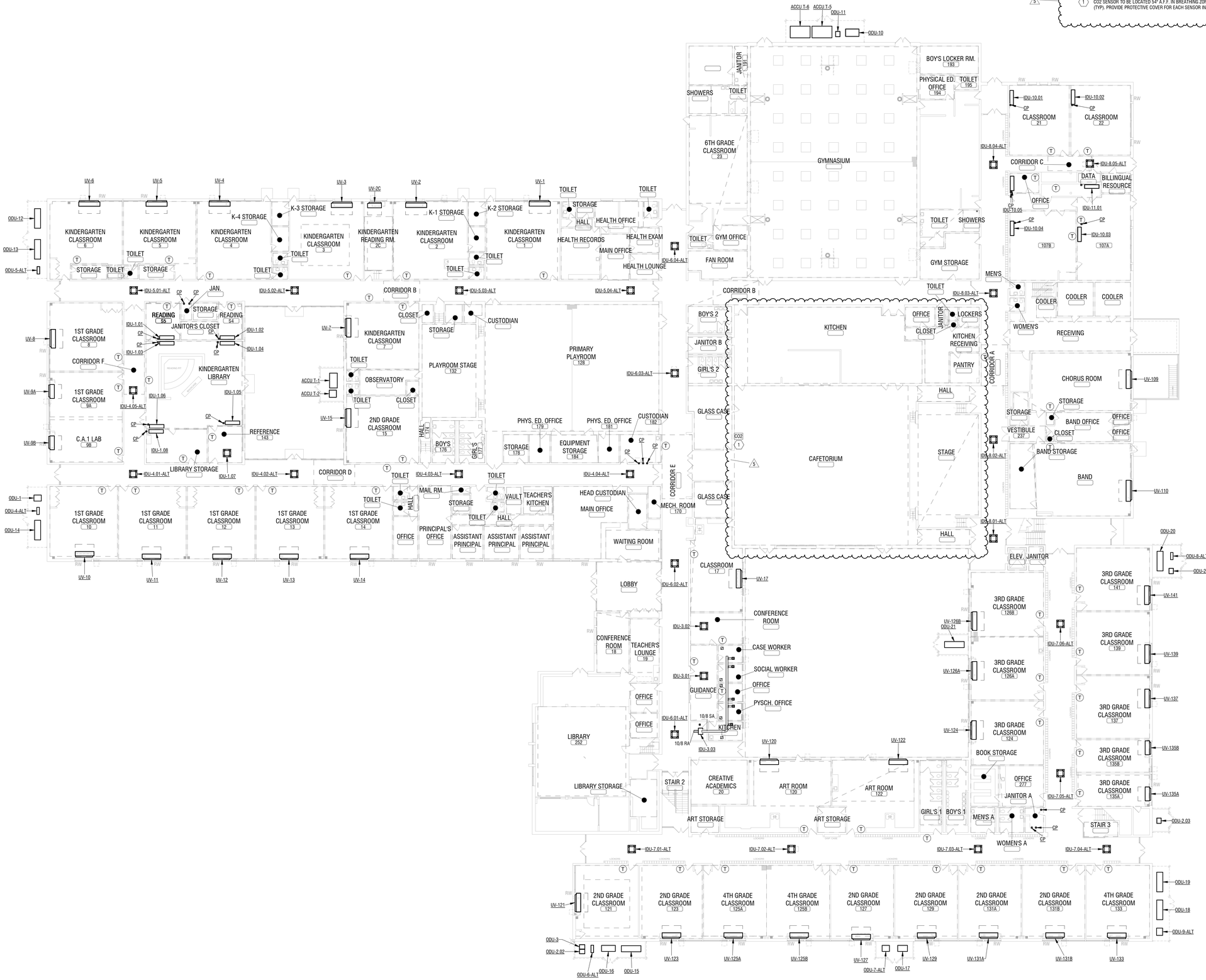
DRAWING NUMBER: MD103

MECHANICAL NOTES:

1. PROVIDE TEMPERATURE SENSOR AND TIE BACK TO BMS SYSTEM (TYP.)
2. RECONNECT AHUs TO EXISTING HWS/HWR PIPING ROUGH-INS. PROVIDE VALVES AND ACCESSORIES AS DETAILED. RECONNECT TO EXISTING DUCTWORK. PROVIDE REFRIGERANT PIPING PER MANUFACTURERS

KEY NOTES:

5 — 1 CO2 SENSOR TO BE LOCATED 54" A.F.F. IN BREATHING ZONE FOR DCV; REDUNDANT CO2 SENSOR TO BE INSTALLED AT EACH LOCATION (TYP). PROVIDE PROTECTIVE COVER FOR EACH SENSOR INSTALLED.



1 M101 FIRST FLOOR DUCTWORK PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 3:57:59 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
5	10-04-2024	ADDENDUM #5
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

FIRST FLOOR DUCTWORK PLAN

DRAWING NUMBER:

M101

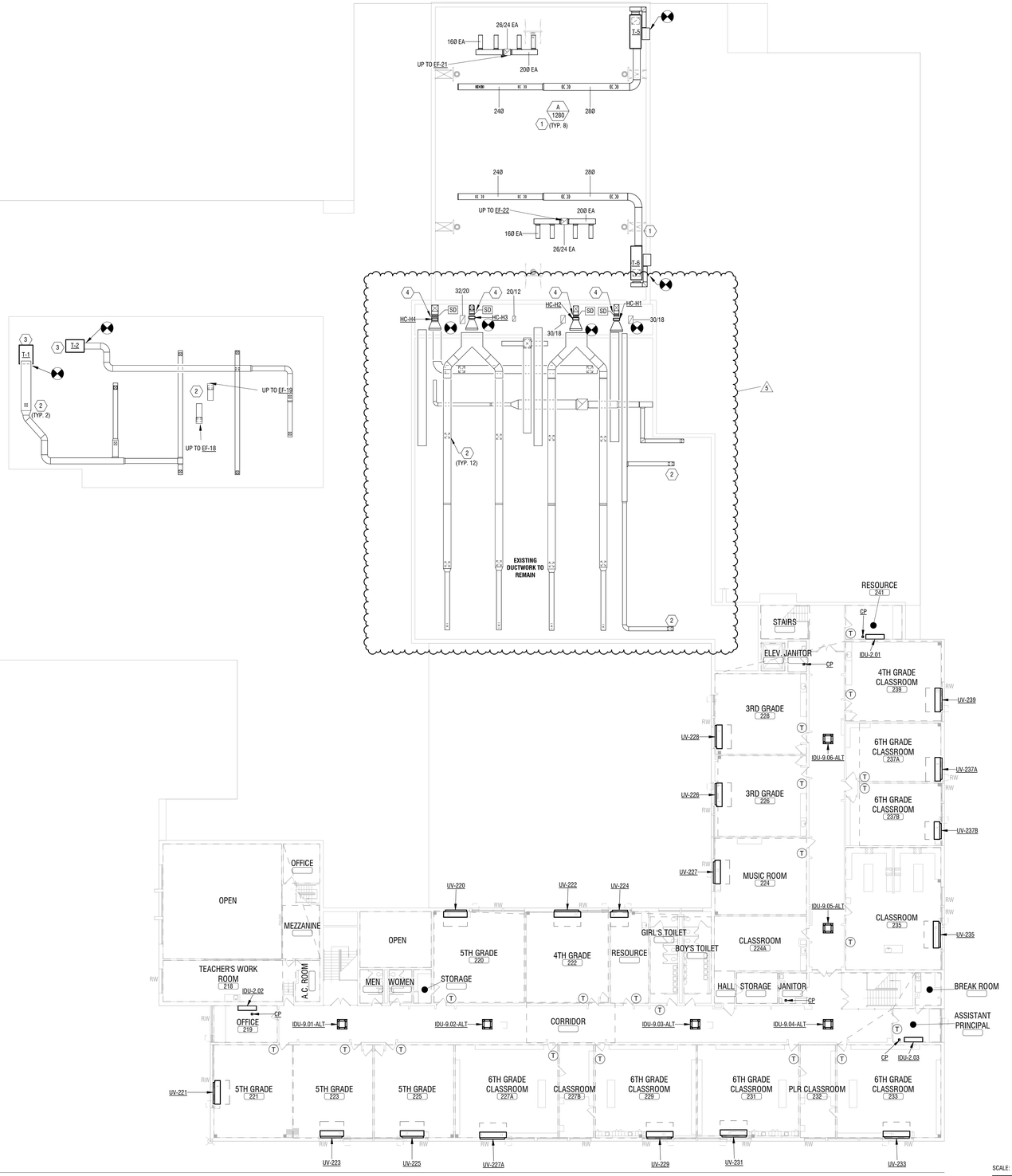
MECHANICAL NOTES:

1. PROVIDE TEMPERATURE SENSOR AND TIE BACK TO BMS SYSTEM (TYP.)
2. PROVIDE AHU AS SCHEDULED. RECONNECT TO EXISTING HWS/HWR PIPING ROUGH-INS. PROVIDE VALVES AND ACCESSORIES AS DETAILED. RECONNECT TO EXISTING DUCTWORK. PROVIDE REFRIGERANT PIPING PER MANUFACTURERS

KEY NOTES:

5

1. PROVIDE VOLUME DAMPER AT NECK OF EACH DIFFUSER
2. REBALANCE EXISTING DIFFUSERS
3. PROVIDE UNISTRUT MOUNTING SYSTEM TO HANG AHU FROM CEILING
4. PROVIDE DUCT MOUNTED SMOKE DETECTOR RATED FOR VELOCITY OF CORRESPONDING SUPPLY DUCT (TYP).



1 M102 SECOND FLOOR MECHANICAL PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 3:58:00 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

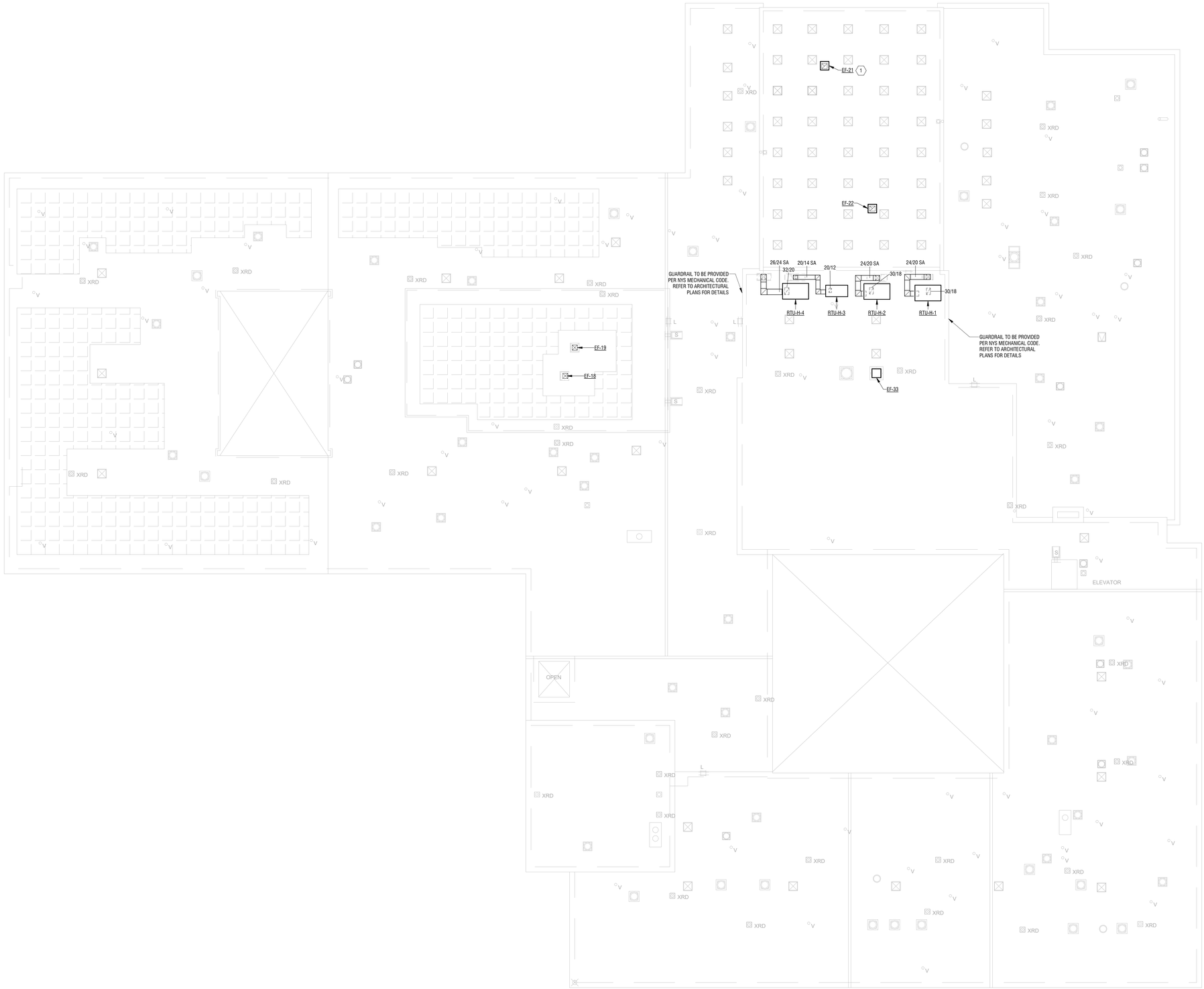
NO:	DATE:	DESCRIPTION:
5	10-04-2024	ADDENDUM #5
4	09-20-2024	ADDENDUM #4
3	09-13-2024	ADDENDUM #3
2	9/3/2024	ADDENDUM#2
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR DUCTWORK PLAN

DRAWING NUMBER:

M102



1 M103 ROOF MECHANICAL PLAN

1/16" = 1'-0"

GRAPHIC SCALE

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

0 16' 32' 48' 64'

11/11/2024 3:58:01 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
3	09-13-2024	ADDENDUM #3
2	9/3/2024	ADDENDUM#2
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

ROOF EQUIPMENT PLAN

DRAWING NUMBER:

M103

MECHANICAL NOTES:

1. CONTRACTOR TO PROVIDE PIPE EXPANSION AS REQUIRED.
2. ALL CONDENSATE DRAINS TO BE ROUGHLY 1"

KEY NOTES:

1. RECONNECT EXISTING 1" HWS/HWR PIPING TO HOT WATER COIL WITHIN UV. PROVIDE A SHUT OFF VALVE ON THE HWS PIPE CONNECTION. PROVIDE A SHUT OFF VALVE AND BALANCING VALVE ON THE HWR PIPE CONNECTION. PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO REFRIGERANT COIL WITHIN UV AS SIZED AND DIRECTED BY MANUFACTURER. PROVIDE 1" CONDENSATE PIPE DISCHARGE TO THE EXTERIOR WALL, DRAINED BY GRAVITY.
2. PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO REFRIGERANT COIL WITHIN UV AS SIZED AND DIRECTED BY MANUFACTURER. PROVIDE 1" CONDENSATE PIPING TO THE CLOSEST EXTERIOR WALL, DRAINED BY GRAVITY.
3. PROVIDE DRAIN PAN AND LEAK DETECTION SYSTEM UNDER EACH CONDENSATE LINE CONNECTION AT INDOOR UNIT. PROVIDE 1" CONDENSATE LINE AS SHOWN.
4. PROVIDE LITTLE GIANT #VCMA CONDENSATE PUMP WITH DRAIN PAIN AND LEAK DETECTION SYSTEM.
5. PROVIDE DRAIN PAN AND LEAK DETECTION SYSTEM UNDER EACH DUCTED DX COIL. PROVIDE 1" CONDENSATE PIPING AS SHOWN.
6. DISCHARGE CONDENSATE INDIRECTLY TO MOP SINK.

1 M201 FIRST FLOOR PIPING PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 3:56:04 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

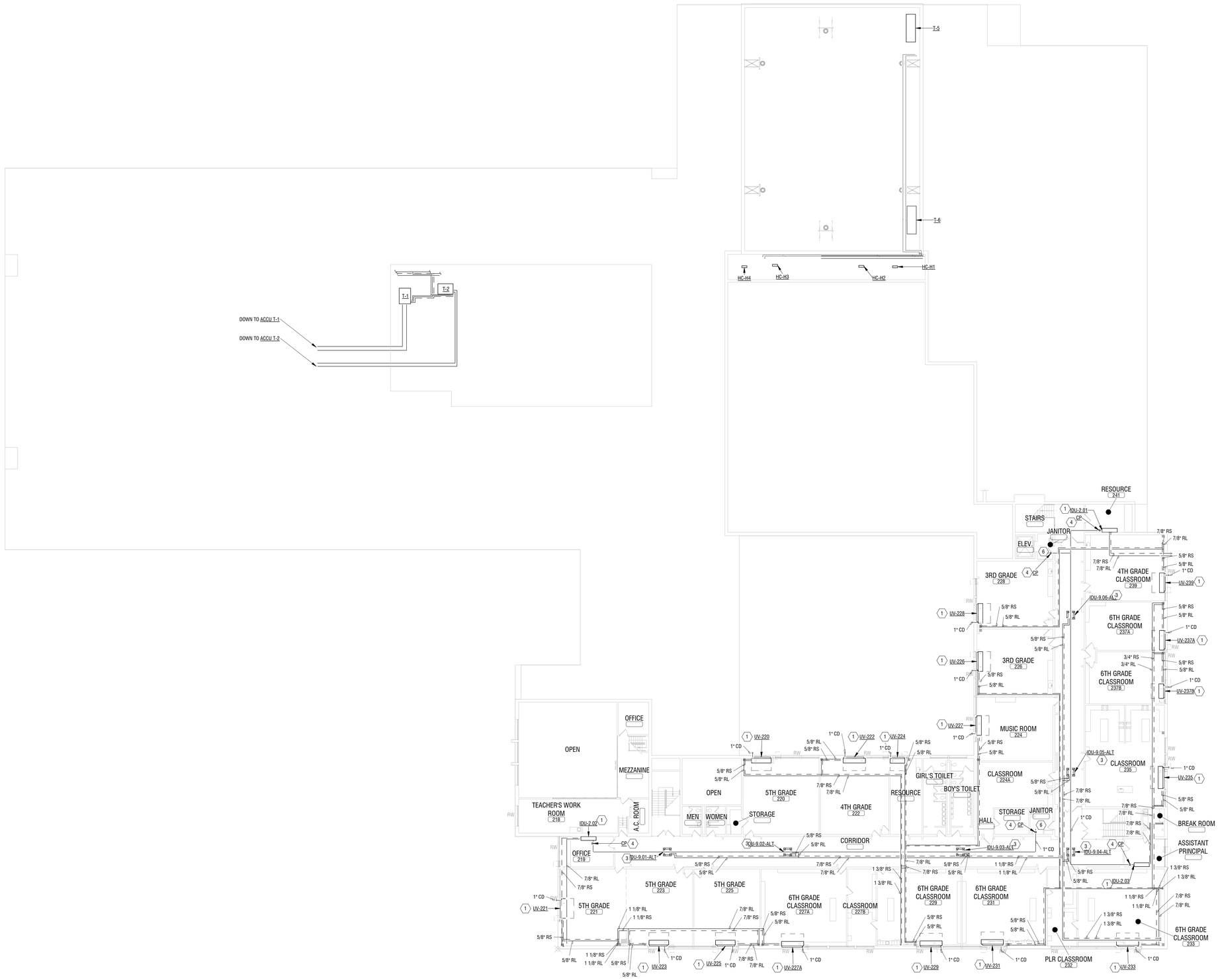
S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: FIRST FLOOR PIPING PLAN
DRAWING NUMBER: M201

MECHANICAL NOTES:

1. CONTRACTOR TO PROVIDE PIPE EXPANSION AS REQUIRED.

KEY NOTES:

1. RECONNECT EXISTING 1" HWS/HWR PIPING TO HOT WATER COIL WITHIN UV. PROVIDE A SHUT OFF VALVE ON THE HWS PIPE CONNECTION. PROVIDE A SHUT OFF VALVE AND BALANCING VALVE ON THE HWR PIPE CONNECTION. PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO REFRIGERANT COIL WITHIN UV AS SIZED AND DIRECTED BY MANUFACTURER. PROVIDE 1" CONDENSATE PIPE DISCHARGE TO THE EXTERIOR WALL, DRAINED BY GRAVITY.
2. PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO REFRIGERANT COIL WITHIN UV AS SIZED AND DIRECTED BY MANUFACTURER. PROVIDE 1" CONDENSATE PIPING TO THE CLOSEST EXTERIOR WALL, DRAINED BY GRAVITY.
3. PROVIDE DRAIN PAN AND LEAK DETECTION SYSTEM UNDER EACH CONDENSATE LINE CONNECTION AT INDOOR UNIT. PROVIDE 1" CONDENSATE LINE AS SHOWN.
4. PROVIDE LITTLE GIANT #VCMA CONDENSATE PUMP WITH DRAIN PAIN AND LEAK DETECTION SYSTEM.
5. PROVIDE DRAIN PAN AND LEAK DETECTION SYSTEM UNDER EACH DUCTED DX COIL. PROVIDE 1" CONDENSATE PIPING AS SHOWN.
6. DISCHARGE CONDENSATE INDIRECTLY TO MOP SINK.



1 M202 SECOND FLOOR PIPING PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 3:58:05 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

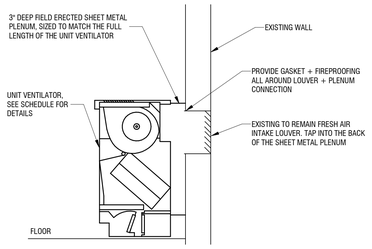
NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

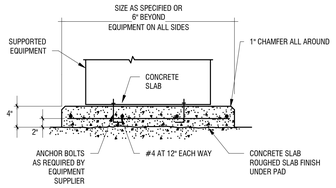
SECOND FLOOR PIPING PLAN

DRAWING NUMBER:

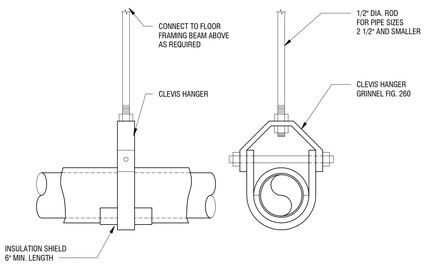
M202



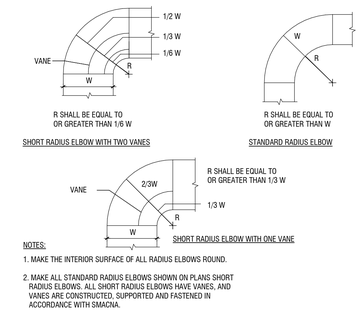
1 M501 — UNIT VENTILATOR PLENUM DETAIL
3/16" = 1'-0"



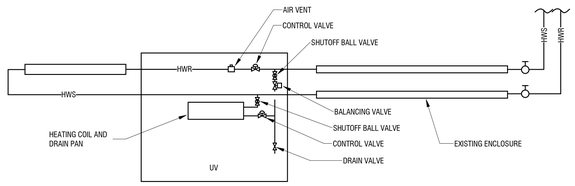
2 M501 — S - HOUSEKEEPING PAD DETAIL
NOT TO SCALE



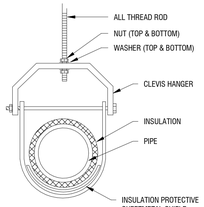
3 M501 — PIPE - PIPE SUPPORT DETAIL
NOT TO SCALE



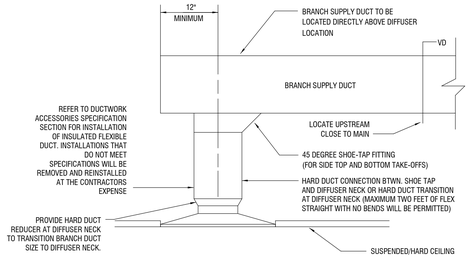
4 M501 — DUCT - TYPICAL RADIUS ELBOWS
NOT TO SCALE



5 M501 — VRV UNIT VENTILATOR PIPING DETAIL
3/16" = 1'-0"

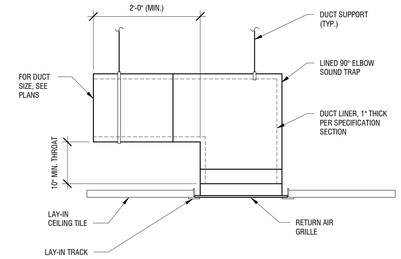


6 M501 — PIPE - PIPE CLEVIS HANGER DETAIL
NOT TO SCALE

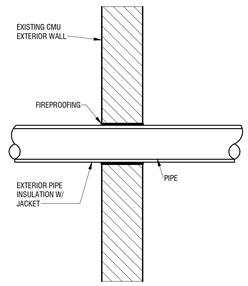


NOTES:
1). ALL DUCTWORK AND DIFFUSER CONNECTIONS SHALL MEET SMACNA STANDARDS.
2). EXCESSIVE USE OF FLEX DUCTWORK AND OFFSETS IN EXCESS OF 45 DEGREES WILL BE REJECTED AT TIME OF PROJECT INSPECTION AND RE-INSTALLED AT THE CONTRACTORS EXPENSE.
3). COORDINATE DIFFUSER AND BRANCH DUCTWORK LOCATIONS WITH REFLECTED CEILING PLAN TO MAINTAIN ACCURACY.

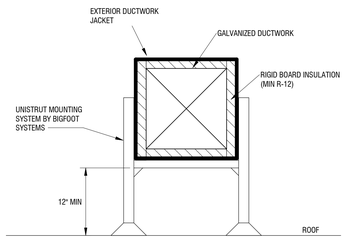
7 M501 — DUCT - AT - DIFFUSER DETAIL
NOT TO SCALE



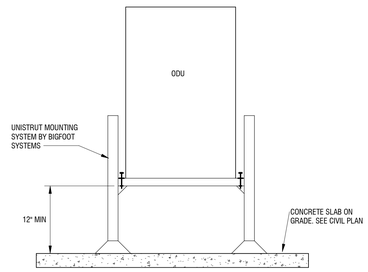
8 M501 — DUCT - AT - RETURN GRILLE W/ SOUND/LIGHT TRAP
NOT TO SCALE



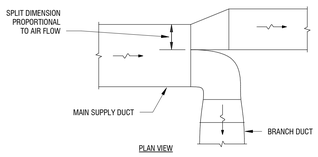
12 M501 — PIPE THROUGH EXTERIOR WALL DETAIL
N.T.S.

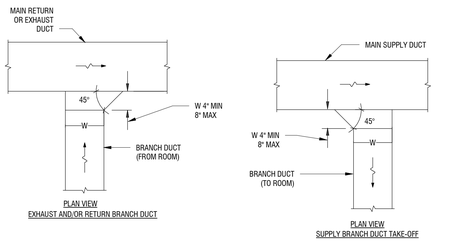


9 M501 — EXTERIOR DUCTWORK DETAIL
N.T.S.

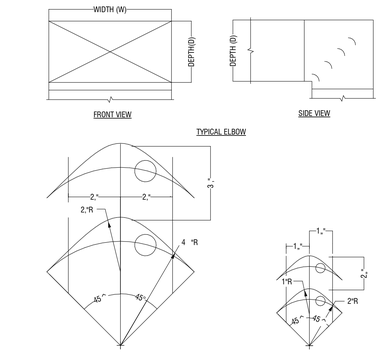


13 M501 — OUTDOOR UNIT MOUNTING DETAIL
N.T.S.





10 M501 — DUCT - TYPICAL DUCTWORK DETAILS
NOT TO SCALE



NOTES:
1. ALL SQUARE OR RECTANGULAR ELBOWS SHALL HAVE ONE OF THE TWO TYPES OF TURNING VANES SHOWN ABOVE. SINGLE VANE ELBOWS SHALL NOT BE PERMITTED.
2. CONSTRUCT, SUPPORT, AND FASTEN ALL VANES AS RECOMMENDED BY SMACNA.
3. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR EXHAUST OR RETURN DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE PERMITS RADIUS INSTALLATION.
4. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR SUPPLY DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE PERMITS RADIUS INSTALLATION AND/OR THERE IS NO OUTLET OR TAKE-OFF WITHIN 5D ON THE DOWNSTREAM SIDE OF THE ELBOW.

11 M501 — DUCT - SQUARE OR RECTANGULAR ELBOWS
NOT TO SCALE

11/11/2024 3:58:06 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

MECHANICAL DETAILS

DRAWING NUMBER:

M501

VRF HEAT PUMP INDOOR UNIT

TAG	SERVED BY	TYPE	AIRFLOW (H/M/L)	HEATING CAPACITY (BTU/H)	TOTAL COOLING CAPACITY (BTU/H)	SENSIBLE COOLING CAPACITY (BTU/H)	DIMENSIONS (H X W X D)	WEIGHT (LBS)	VOLTAGE/PHASE	MCA	MOP	BASIS OF DESIGN		NOTES
												MANUFACTURER	MODEL NUMBER	
IDU-1.01	ODU-1	WALL MOUNTED	260/160	8,700	7,500	6,000	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.3	15	DAIKIN	FXAQ07PVJU	1,2
IDU-1.02	ODU-1	WALL MOUNTED	260/160	8,700	7,500	6,000	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.3	15	DAIKIN	FXAQ07PVJU	1,2
IDU-1.03	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
IDU-1.04	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
IDU-1.05	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
IDU-1.06	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
IDU-1.07	ODU-1	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2
IDU-1.08	ODU-1	WALL MOUNTED	260/160	8,700	7,500	6,000	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.3	15	DAIKIN	FXAQ07PVJU	1,2
IDU-2.01	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	DAIKIN	FTX12NMVJU	1,2
IDU-2.02	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	DAIKIN	FTX12NMVJU	1,2
IDU-2.03	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	DAIKIN	FTX12NMVJU	1,2
IDU-3.01	ODU-3	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2
IDU-3.02	ODU-3	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2
IDU-3.03	ODU-3	DUCTED CONCEALED	600/512/406	20,840	18,000	13,300	9-5/8"X21-11/16"X31-1/2"	77	208V/1PH	1.6	15	DAIKIN	FXSQ18TAVJU	
IDU-4.01-ALT	ODU-4-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-4.02-ALT	ODU-4-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-4.03-ALT	ODU-4-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-4.04-ALT	ODU-4-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-4.05-ALT	ODU-4-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-5.01-ALT	ODU-5-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-5.02-ALT	ODU-5-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-5.03-ALT	ODU-5-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-5.04-ALT	ODU-5-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-6.01-ALT	ODU-6-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-6.02-ALT	ODU-6-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-6.03-ALT	ODU-6-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-6.04-ALT	ODU-6-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-7.01-ALT	ODU-7-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-7.02-ALT	ODU-7-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-7.03-ALT	ODU-7-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-7.04-ALT	ODU-7-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-7.05-ALT	ODU-7-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-7.06-ALT	ODU-7-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-8.01-ALT	ODU-8-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-8.02-ALT	ODU-8-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-8.03-ALT	ODU-8-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-8.04-ALT	ODU-8-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-8.05-ALT	ODU-8-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-9.01-ALT	ODU-9-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-9.02-ALT	ODU-9-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-9.03-ALT	ODU-9-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-9.04-ALT	ODU-9-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-9.05-ALT	ODU-9-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-9.06-ALT	ODU-9-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-10.01	ODU-10	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
IDU-10.02	ODU-10	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
IDU-10.03	ODU-10	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
IDU-10.04	ODU-10	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
IDU-10.05	ODU-10	WALL MOUNTED	635/470	8,500	7,500	6,300	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ07PVJU	1,2
IDU-11.01	ODU-11	WALL MOUNTED	316/247/132	N/A	12,000	10,900	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FTK12B	1,2

NOTES:

1. PROVIDE CONDENSATE PUMP
2. INTEGRATE INTO BACNET BMS SYSTEM (SEE CONTROLS DRAWINGS)
3. PROPOSED AS AN ADD/ALTERNATE.

AIR COOLED CONDENSING UNITS (ACCU)

TAG	SERVES	LOCATION	NOMINAL TONS	COMPRESSORS	STAGES	COOLING			SOUND LEVEL (dbA)	ELECTRICAL			WEIGHT (LBS)	REFRIGERANT TYPE	LINE SIZES (IN)	BASIS OF DESIGN		NOTES
						MBH	AMBIENT DB	EER		SUPPLY VOLTAGE	MCA	MOP			SUCTION / LIQUID	MANUFACTURER	MODEL NUMBER	
ACCU H-1	CAFETERIA	ROOF	12	1	2	115	95	11.2	84.7	208V/3PH	47.7	80	345	R-410A	1.625 / 0.625	DAIKIN	DX14XA1203A	1,2,3,4
ACCU H-2	CAFETERIA	ROOF	12	1	2	115	95	11.2	84.7	208V/3PH	47.7	80	345	R-410A	1.625 / 0.625	DAIKIN	DX14XA1203A	1,2,3,4
ACCU H-3	CAF. STAGE	ROOF	09	1	2	90	95	11.2	83.7	208V/3PH	40.6	60	325	R-410A	1.625 / 0.625	DAIKIN	DX14XA0903A	1,2,3,4
ACCU H-4	KITCHEN	ROOF	15	2	2	184	95	12.3	86	208V/3PH	71.1	90	1821	R-410A	1.12 (2) / 0.62 (2)	DAIKIN	RCS015D	1,2,3,4
ACCU T-1	PLAYROOM WEST AND STAGE	ROOF	15	2	2	143	95	14.2		208V/3PH	53	80	647	R-410A	1.625 / 0.625	DAIKIN	RCS10H150C	1,2,3,4
ACCU T-2	PLAYROOM EAST	ROOF	12	1	2	115	95	11.2	84.7	208V/3PH	47.7	80	345	R-410A	1.625 / 0.625	DAIKIN	DX14XA1203A	1,2,3,4
ACCU T-5	GYM	ROOF	20	3	4	253	95	12.3	86	208V/3PH	95.8	125	1891	R-410A	1.38 (2) / 0.62 (2)	DAIKIN	RCS020D	1,2,3,4
ACCU T-6	GYM	ROOF	20	3	4	253	95	12.3	86	208V/3PH	95.8	125	1891	R-410A	1.38 (2) / 0.62 (2)	DAIKIN	RCS020D	1,2,3,4

NOTES:

1. COMPRESSOR WARRANTY - 5 YEARS
2. PARTS WARRANTY - 1 YEAR
3. LOW AMBIENT TO 45 DEGREES
4. PROVIDE APR VALVE PER CIRCUIT

AIR HANDLING UNITS

TAG	LOCATION	SERVES	AREA	FAN			FAN	HW HEATING							DX COOLING				ELECTRICAL						BASIS OF DESIGN		NOTES
				TOTAL CFM	OA CFM	MIN OA	ESP (IN WG)	GPM	EAT	LAT	EWT	LWT	PD (FT)	MBH	EA (DB/WB)	LA (DB/WB)	SENSIBLE COOLING (MBH)	TOTAL COOLING (MBH)	V/PH	MOTOR HP	FLA	BHP	MCA	MOP	MANUFACTURER	MODEL NUMBER	
T-1	STAGE	PLAYROOM WEST AND STAGE	3130	3600	1746	349	0.8	13.7	36.6	87.3	180	150	15.64	200	84.8 / 71.9	60.9 / 59.8	93.9	150.3	208V/3PH	2 @ 4.42	20.8	1.27	26	35	DAIKIN	BCHE0401	1,2,3,4
T-2	STAGE	PLAYROOM EAST	1885	2600	1320	264	0.8	10.1	34.9	87.0	180	150	10.33	148.1	85.8 / 72.0	60.8 / 59.6	71.1	111	208V/3PH	4.42	11.5	0.96	14.4	25	DAIKIN	BCHE0301	1,2,3,4
T-5	GYM	GYM	3312.5	5130	2480	496	0.8	16.8	37.2	83.2	180	150	4	257.9	84.9 / 70.3	57.0 / 55.5	156.5	245	208V/3PH	2 @ 2.1	11.4	2.8	12.8	15	DAIKIN	CAH015GDCM	1,3,4
T-6	GYM	GYM	3312.5	5130	2480	496	0.8	16.8	37.2	83.2	180	150	4	257.9	84.9 / 70.3	57.0 / 55.5	156.5	245	208V/3PH	2 @ 2.1	11.4	2.8	12.8	15	DAIKIN	CAH015GDCM	1,3,4

NOTES:

1. CONTROLS BY PROJECT CONTROLS CONTRACTOR
2. UNITS HAVE LENGTH LIMITATIONS, TBD
3. HORIZONTAL UNITS WITH END SUPPLY, END OA, AND BOTTOM RA
4. PROVIDE MIXING BOX AND MERV 13 FILTERS
5. HORIZONTAL UNITS WITH END SUPPLY, TOP OA, AND BOTTOM RA
6. PROVIDE BACKUP MERV 13 FILTER

EXHAUST FAN

TAG	SERVES	TYPE	AIRFLOW CFM	TSP IN.WG	DRIVE	DIMENSIONS	RPM	MOTOR HP	FLA	MOP	VOLTAGE/PHASE	NOISE (SONES)	CONTROL	BASIS OF DESIGN		NOTES
														MANUFACTURER	MODEL NUMBER	
EF-18	PLAYROOM	ROOF DOWNBLAST	1700	0.25	DIRECT	22" x 22"		1/2	6.6	15	115V/1PH	9	0-10 vdc	GREENHECK	G-140-VG	1,2,3,5
EF-19	PLAYROOM	ROOF DOWNBLAST	1600	0.25	DIRECT	22" x 22"		1/2	6.6	15	115V/1PH	9	0-10 vdc	GREENHECK	G-140-VG	1,2,3,5
EF-21	GYM	ROOF DOWNBLAST	4455	0.25	BELT	40" x 40"		1/2	9.8	20	115V/1PH	6.4	VFD	GREENHECK	GB-300-314OXQD DRI	1,2,3,4
EF-22	GYM	ROOF DOWNBLAST	4455	0.25	BELT	40" x 40"		1/2	9.8	20	115V/1PH	6.4	VFD	GREENHECK	GB-300-314OXQD DRI	1,2,3,4
EF-33	KITCHEN	ROOF DOWNBLAST	5600	0.25	BELT	41.5" x 41.5"	460	1.0	8.8	15	208V/1PH	8.2	VFD	GREENHECK	GB-300-15140X3Q D-DR1	1,2,3,4

NOTES:

1. PROVIDE 12 INCH INSULATED ROOF CURB
2. PROVIDE BACKDRAFT DAMPER
3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH
4. PROVIDE VFD TO BE MOUNTED INDOORS
5. ECM MOTOR

DUCTED HEATING COIL

TAG	CFM	EAT / LAT	CAPACITY	EWT/LWT	FLOWRATE	FACE AREA	FACE VELOCITY (FPM)	# ROWS	BASIS OF DESIGN		NOTES
									MANUFACTURER	MODEL NUMBER	
HC-H1	3250	58F / 90F	112,320 BTUH	160/140	11.2 GPM	6.5 SQFT	500	1			
HC-H2	3250	58F / 90F	112,320 BTUH	160/140	11.2 GPM	6.5 SQFT	500	1			
HC-H3	1500	58F / 90F	51,840 BTUH	160/140	5.2 GPM	3.0 SQFT	500	1			
HC-H4	4500	58F / 90F	155,520 BTUH	160/140	15.5 GPM	9.0 SQFT	500	1			

PACKAGED COOLING ROOFTOP UNIT WITH ENERGY RECOVERY WHEEL SCHEDULE

TAG	LOCATION	SERVICE	TOTAL CFM	OA CFM	ESP	EER/IEER	DX COOLING					HOT GAS REHEAT		ENERGY RECOVERY WHEEL												DIMENSIONS (LxHxW)	WEIGHT (LBS)	ELECTRICAL				BASIS OF DESIGN		NOTES
														SUMMER						WINTER														
																		EFFECTIVENESS						EFFECTIVENESS										
							TOTAL CAPACITY	SENSIBLE CAPACITY	REFIGERANT	EAT DB/WB	LAT DB/WB	CAPACITY	LAT DB/WB	OA DB/WB EAT	RA DB/WB EAT	MIXED AIR DB/WB LAT	REMOVED CAPACITY	TOTAL	SENSIBLE	OA DB/WB EAT	RA DB/WB EAT	MIXED AIR DB/WB LAT	REMOVED CAPACITY	TOTAL	SENSIBLE			V/PH	FLA	MCA	MOP	MANUFACTURER	MODEL NUMBER	
RTU-H-1	ROOF	STAGE	3250	1535	1.0"	12.0/21.7	96,476 BTUH	81,395 BTUH	R32	76.8F/63.5F	53F/53F	60,398 BTUH	70F/59F	95F/75F	75F/62F	78.5F/63.5F	57,020 BTUH	0.78	0.8	0F/0F	75F/50F	58.8F/43.9F	108,662 BTUH	0.8	0.81	121.6 X 85.9 X 73.4	2299	208V/3PH	64.9	75.4	110	DAIKIN	DPSC07B	
RTU-H-2	ROOF	CAFETERIA	3250	1535	1.0"	12.0/21.7	96,476 BTUH	81,395 BTUH	R32	76.8F/63.5F	53F/53F	60,398 BTUH	70F/59F	95F/75F	75F/62F	78.5F/63.5F	95	0.78	0.8	0F/0F	75F/50F	58.8F/43.9F	108,662 BTUH	0.8	0.81	121.6 X 85.9 X 73.4	2299	208V/3PH	64.9	75.4	110	DAIKIN	DPSC07B	
RTU-H-3	ROOF	CAFETERIA	1500	572	0.75"	14.1/20.28	37,774 BTUH	35,059 BTUH	R32	76.8F/63.5F	54F/54F	25,734 BTUH	70F/60F	95F/75F	75F/62F	78.5F/63.5F	95	0.75	0.78	0F/0F	75F/50F	58.8F/43.9F	38,504 BTUH	0.77	0.78	103 X 69.5 X 53.3	1447	208V/3PH	30.8	35.5	50	DAIKIN	DPSC03B	
RTU-H-4	ROOF	KITCHEN	4500	2250	1.0"	12.4/21.3	124,934 BTUH	108,741 BTUH	R32	77.5F/64F	54F/54F	76,271 BTUH	70F/60F	95F/75F	75F/62F	78.5F/63.5F	95	0.73	0.74	0F/0F	75F/50F	58.8F/43.9F	144,599 BTUH	0.74	0.75	121.6 X 85.9 X 73.4	2452	208V/3PH	73.7	73.7	125	DAIKIN	DPSC10B	

UNIT VENTILATOR

TAG	SERVED BY	SUPPLY FAN		COOLING						REFRIGERANT TYPE	HEATING							ELECTRICAL			UNIT SIZE			WEIGHT (LB)	BASIS OF DESIGN		NOTES
		AIRFLOW (CFM)	OA (CFM)	TOT. CAP. (BTU/H)	SENS. CAP. (BTU/H)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)		TOT. CAP (BTU/H)	EAT DB (°F)	LAT DB (°F)	COIL ROWS	FLOW (GPM)	EWT (°F)	LWT (°F)	VOLT/HZ/PHASE	MCA (A)	MOCP (A)	L	W	H		MANUFACTURER	MODEL	
UV-1	ODU-12	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-2	ODU-12	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-2C	ODU-12	750	210	25635	15482	80 °F	67 °F	61 °F	56 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-3	ODU-12	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-4	ODU-12	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-5	ODU-13	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-6	ODU-13	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-7	ODU-14	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-8	ODU-13	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-9A	ODU-13	750	210	25635	15482	80 °F	67 °F	61 °F	56 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-9B	ODU-13	750	210	25635	15482	80 °F	67 °F	61 °F	56 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-10	ODU-13	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-11	ODU-14	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-12	ODU-14	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-13	ODU-14	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-14	ODU-14	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-15	ODU-14	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-17	ODU-15	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-109	ODU-20	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-110	ODU-20	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-120	ODU-15	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-121	ODU-15	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-122	ODU-18	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-123	ODU-15	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-124	ODU-21	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-125A	ODU-15	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-125B	ODU-15	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-126A	ODU-21	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-126B	ODU-21	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-127	ODU-18	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-129	ODU-18	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-131A	ODU-18	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-131B	ODU-18	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-133	ODU-18	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-135A	ODU-21	750	210	25635	15482	80 °F	67 °F	61 °F	56 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-135B	ODU-21	750	210	25635	15482	80 °F	67 °F	61 °F	56 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-137	ODU-21	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-139	ODU-20	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-141	ODU-20	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-220	ODU-17	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-221	ODU-16	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-222	ODU-17	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-223	ODU-16	1250	250	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-224	ODU-17	750	210	25635	15482	80 °F	67 °F	61 °F	56 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-225	ODU-16	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-226	ODU-19	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-227	ODU-17	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-227A	ODU-16	1500	470	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-228	ODU-20	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-229	ODU-17	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-231	ODU-19	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-233	ODU-19	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	
UV-235	ODU-19	1500	500	50656	34148	80 °F	67 °F	58 °F	56 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-237A	ODU-19	750	210	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	
UV-237B	ODU-19	750	210	25635	15482	80 °F	67 °F	61 °F	56 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-239	ODU-20	1250	420	40407	28022	80 °F	67 °F	59 °F	56 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	

NOTES:

1. PROVIDE PLENUM BACK
2. CUSTOM LOUVERS PROVIDED BY CONTRACTOR
3. CONTRACTOR TO PROVIDE 1/8" MINIMUM SPLITTER TO SEPERATE OA AND CONDENSOR AIR
4. ALL HYRDONIC CONNECTION ARE ON THE LEFT OF THE UNIT, CONTRACTOR TO ROUTE PIPING AS REQUIRED
5. PROVIDE A MERV-13 FILTER AND A BACKUP MERV 13 FILTER

AIR-COOLED VRV HEAT PUMP CONDENSING UNIT

TAG	NOMINAL HEATING CAPACITY (BTU/H)	NOMINAL COOLING CAPACITY (BTU/H)	REFRIGERANT		DIMENSIONS (L X W X H)	WEIGHT (LBS)	ELECTRICAL				BASIS OF DESIGN		NOTES
			TYPE	FACTORY CHARGE (LBS)			VOLTAGE/PHASE	RLA	MCA	MOP	MANUFACTURER	MODEL NUMBER	
ODU-1	73,000	69,000	R-410A	13.0	66-11/16" X 36-11/16" X 30-3/16"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	
ODU-2.01	13,400	10,600	R-410A	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-2.02	13,400	10,600	R-410A	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-2.03	13,400	10,600	R-410A	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-3	52,000	48,000	R-410A	7.5	39" X 36.6 X 12-5/8"	176	208V/1PH	19	29.1	35	DAIKIN	RXTQ48TBVJUA	
ODU-4-ALT	57,000	57,500	R-410A	7.9	53.0" x 35.4" x 12.6"	225	208V/1PH	23.2	29.1	35	DAIKIN	RXTQ60TBVJUA	1
ODU-5-ALT	52,000	48,000	R-410A	7.5	39" X 37" X 12-5/8"	176	208V/1PH	19	29.1	35	DAIKIN	RXTQ48TBVJUA	1
ODU-6-ALT	52,000	48,000	R-410A	7.5	39" X 37" x 12-5/8"	176	208V/1PH	19	29.1	35	DAIKIN	RXTQ48TBVJUA	1
ODU-7-ALT	73,000	69,000	R-410A	13.0	65.4"x 36.6" x 30.1"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	1
ODU-8-ALT	57,000	57,500	R-410A	7.9	53.0" x 35.4" x 12.6"	225	208V/1PH	23.2	29.1	35	DAIKIN	RXTQ60TBVJUA	1
ODU-9-ALT	73,000	69,000	R-410A	13.0	66-11/16" X 36-11/16" X 30-3/16"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	1
ODU-10	108,000	96,000	R-410A	22.7	66-11/16" X 36-11/16" X 30-3/16"	525	208V/3PH	23.8	36.3	45	DAIKIN	RXYQ96AATJA	
ODU-11	N/A	13,300	R-410A	2.09	21-11/16" X 26-1/2" X 11-3/16"	60	208V/1PH	2.9	4	15	DAIKIN	RK12BXVJU	
ODU-12	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-13	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-14	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-15	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-16	216,000	192,000	R-410A	25.8	68 7/8" X 30 1/8" X 65 3/8"	904	208V/3PH	16.6 + 16.6 A	59.8	60	DAIKIN	RXYQ192AATJA	
ODU-17	189,000	168,000	R-410A	25.8	48 13/16" X 30 1/8" X 35 3/8"	750	208V/3PH	12.5 + 20.0 A	54.9	60	DAIKIN	RXYQ168AATJA	
ODU-18	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-19	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-20	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-21	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	

NOTES:

1. PROPOSED AS AN ADD/ALTERNATE.

DIFFUSER SCHEDULE

No.	DESCRIPTION	NECK SIZE	MOUNTING	FINISH	BASIS OF DESIGN		NOTES
					MANUFACTURER	MODEL	
A	SUPPLY DIFFUSER, STEEL	18" Ø	SURFACE	BY ARCH	PRICE	RID	

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
2	9/3/2024	ADDENDUM#2

Revisions

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

MECHANICAL SCHEDULES

DRAWING NUMBER:

M601

11/11/2024 3:58:09 PM

HALLWAY SPLIT SYSTEM - POINTS LIST

POINT #	POINT DESCRIPTION	READ POINTS	READ/WRITE POINTS	SOFTWARE POINTS SCHEDULE	SOFTWARE POINTS ALARM	SOFTWARE POINTS TREND	NOTES
1	SYSTEM ENABLE/DISABLE		X				
2	OCCUPIED HEATING SETPOINT		X				
3	UNOCCUPIED HEATING SETPOINT		X				
4	OCCUPIED COOLING SETPOINT		X				
5	UNOCCUPIED COOLING SETPOINT		X				
6	GENERAL ALARM		X		X		
7	SPACE TEMPERATURE	X			X	X	

OFFICE SPLIT SYSTEM - POINTS LIST

POINT #	POINT DESCRIPTION	READ POINTS	READ/WRITE POINTS	SOFTWARE POINTS SCHEDULE	SOFTWARE POINTS ALARM	SOFTWARE POINTS TREND	NOTES
1	SYSTEM ENABLE/DISABLE		X				
2	OCCUPIED MODE		X	X			
3	UNOCCUPIED MODE		X	X			
4	GENERAL ALARM		X		X		
5	SPACE TEMPERATURES	X			X	X	PROVIDE USER ADJUSTABLE THERMOSTATS IN EACH SPACE

NOTES:
1. CONTRACTOR TO PROGRAM DEFAULT HEATING AND COOLING SETPOINTS
2. CONTRACTOR TO PROGRAM SETPOINT ADJUSTMENT RANGE +/- 2 DEG. F
3. SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER

ACCUS - POINTS LIST

POINT #	POINT DESCRIPTION	READ POINTS	READ/WRITE POINTS	SOFTWARE POINTS SCHEDULE	SOFTWARE POINTS ALARM	SOFTWARE POINTS TREND	NOTES
1	SYSTEM ENABLE/DISABLE		X				
2	COMPRESSOR STATUS	X			X		
3	MODEL SELECT (HEATING/COOLING)		X			X	
4	GENERAL ALARM				X		
5	COMPRESSOR START/STOP (2)		X			X	

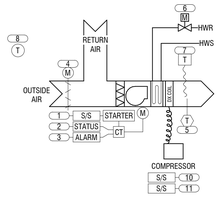
NOTES:
1. CONTRACTOR TO PROGRAM DEFAULT HEATING AND COOLING SETPOINTS
2. CONTRACTOR TO PROGRAM SETPOINT ADJUSTMENT RANGE +/- 2 DEG. F
3. SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER

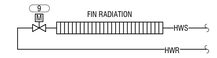
SELF CONTAINED DX UNIT VENTILATOR - POINTS LIST

ABBREVIATION KEY:
AI = ANALOG INPUT, AO = ANALOG OUTPUT, DI = DIGITAL INPUT, DO = DIGITAL OUTPUT, AV = ANALO...
DV = DIGITAL VALUE

NOTES:

POINT #	POINT DESCRIPTION	HARWARE POINTS AI	AO	DI	DO	SOFTWARE POINTS AV	DV	SCHED	ALARM	TREND	NOTES
1	FAN MOTOR START/STOP				X			X			
2	FAN MOTOR STATUS			X						X	
3	FAN MOTOR ALARM			X					X		
4	DA/RA DAMPER		X			X		X			
5	SUPPLY TEMPERATURE	X							X		
6	HEATING COIL CONTROL VALVE		X							X	
7	LOW LIMIT FREEZESTAT			X					X		
8	SPACE TEMPERATURE	X							X	X	
9	FIN TUBE CONTROL VALVE		X							X	
10	COMPRESSOR START/STOP				X						
11	COMPRESSOR STATUS	X							X		





NOTE: FIN RADIATION CONTROL IS NOT PRESENT IN ALL SPACES.

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 70°F (ADJ.) HEATING SETPOINT, 74°F COOLING SETPOINT.

UNOCCUPIED MODE: (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A 60°F (ADJ.) HEATING SETPOINT, 80°F COOLING SETPOINT.

SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE SPACE TEMPERATURE HEATING SETPOINT AT THE SPACE SENSOR.

F/B DAMPER AND HEATING COIL VALVE:
WHENEVER THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, MODULATE THE FACE AND BYPASS DAMPER TO MAINTAIN SETPOINT. THE HOT WATER COIL VALVE SHALL BE OPEN WHENEVER THE OAT <65°F. HEATING SHALL BE ENABLED.

ECONOMIZER MODE WHEN OUTSIDE AIR IS ABOVE 55°F (ADJ.):

WHENEVER THE SPACE TEMPERATURE RISES ABOVE SPACE SETPOINT, THE HOT WATER COIL SHALL CLOSE. UPON FURTHER RISE IN TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN TO MAINTAIN THE SPACE TEMPERATURE.

IF THE SPACE TEMPERATURE RISES 2 DEGREES ABOVE THE SETPOINT, THE ECONOMIZER DAMPER SHALL RETURN TO MINIMUM POSITION AND THE COMPRESSOR SHALL CYCLE TO MAINTAIN THE SPACE TEMPERATURE.

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

OUTSIDE AIR DAMPER:
THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM OUTSIDE AIR POSITION WHENEVER:
-THE UNIT IS IN OCCUPIED MODE AND
-THE FAN IS ON.
-THE UNIT IS IN COOLING MODE

EXISTING BUILDING CONTROLS: WHEN OA DAMPERS OPEN, EXG. RELIEF AIR DAMPERS SHALL OPEN AND RELIEF AIR EXHAUST FANS SHALL RUN.

FAN:
DURING OCCUPIED MODE THE SUPPLY FAN WILL RUN AT A CONSTANT, MANUALLY DESIGNATED SPEED (LOW/MED/HIGH).
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).
- HIGH SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS GREATER THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.
- LOW SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

FIN RADIATION HEATING VALVE (IF EXISTING IN PLACE):
WHERE EXISTING, THE FIN RADIATION SHALL:
-PROVIDE THE FIRST STAGE OF HEATING.
-PROVIDE UNOCCUPIED MODE HEATING.
-BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 55 DEG F (ADJ.)

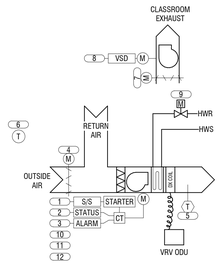
1 M701 — SELF CONTAINED DX UNIT VENTILATOR CONTROLS SCHEMATIC
NOT TO SCALE

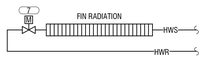
VRF UNIT VENTILATOR - POINTS LIST

ABBREVIATION KEY:
AI = ANALOG INPUT, AO = ANALOG OUTPUT, DI = DIGITAL INPUT, DO = DIGITAL OUTPUT, AV =...
DV = DIGITAL VALUE

NOTES:

POINT #	POINT DESCRIPTION	HARWARE POINTS AI	AO	DI	DO	SOFTWARE POINTS AV	DV	SCHED	ALARM	TREND	NOTES
1	FAN MOTOR START/STOP				X						
2	FAN MOTOR STATUS				X					X	
3	FAN MOTOR ALARM				X				X		
4	OA/RA DAMPER		X			X					
5	SUPPLY TEMPERATURE	X							X		
6	SPACE TEMPERATURE	X							X	X	
7	FIN TUBE CONTROL VALVE		X							X	
7	EF DAMPER			X					X		
8	FAN SPEED		X								
9	HEATING COIL CONTROL VALVE		X							X	
10	FACE/BYPASS DAMPER		X							X	
11	MODE TO VRV SYSTEM					X				X	
12	VRV ODU TEMP. SENSOR (EACH CLASSROOM)	X							X	X	





NOTE: FIN RADIATION CONTROL IS NOT PRESENT IN ALL SPACES.

OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 70°F (ADJ.) HEATING SETPOINT, 74°F COOLING SETPOINT.

UNOCCUPIED MODE: (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A 60°F (ADJ.) HEATING SETPOINT, 80°F COOLING SETPOINT.

SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE SPACE TEMPERATURE HEATING SETPOINT AT THE SPACE SENSOR.

F/B DAMPER AND HEATING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE SPACE TEMPERATURE. WHENEVER THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, MODULATE THE FACE AND BYPASS DAMPER TO MAINTAIN SETPOINT. THE HOT WATER COIL VALVE SHALL BE OPEN.
HEATING SHALL BE ENABLED WHENEVER:
-OUTSIDE AIR TEMPERATURE IS LESS THAN 50°F (ADJ.) AND OAT<40F - COIL 100% OPEN AND MODULATE F/B DAMPER TO MAINTAIN TEMPERATURE OR OAT>40F - F/B FULL FACE AND MODULATE COIL TO MAINTAIN TEMPERATURE
-THE SPACE TEMPERATURE IS BELOW HEATING SETPOINT.

ECONOMIZER MODE WHEN OUTSIDE AIR IS ABOVE 60°F (ADJ.):

WHENEVER THE F/B DAMPER IS IN FULL BYPASS POSITION AND THE SPACE TEMPERATURE RISES ABOVE SPACE SETPOINT, THE HOT WATER COIL SHALL CLOSE. UPON FURTHER RISE IN TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL OPEN TO 100% TO ALLOW FOR ECONOMIZER COOLING.

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

OUTSIDE AIR DAMPER:
THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM OUTSIDE AIR POSITION WHENEVER:
-THE UNIT IS IN OCCUPIED MODE AND
-THE FAN IS ON.

EXISTING BUILDING CONTROLS: WHEN OA DAMPERS OPEN, EXG. RELIEF AIR DAMPERS SHALL OPEN AND RELIEF AIR EXHAUST FANS SHALL RUN.

FAN:
DURING OCCUPIED MODE THE SUPPLY FAN WILL RUN AT A CONSTANT, MANUALLY DESIGNATED SPEED (LOW/MED/HIGH).
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).
- HIGH SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS GREATER THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.
- LOW SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

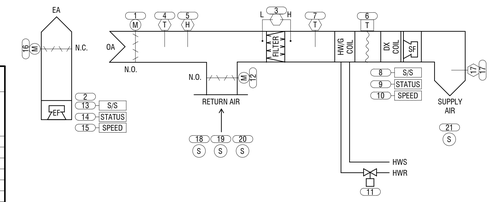
FIN RADIATION HEATING VALVE (IF EXISTING IN PLACE):
WHERE EXISTING, THE FIN RADIATION SHALL:
-PROVIDE THE SECOND STAGE OF HEATING.
-PROVIDE UNOCCUPIED MODE HEATING.
-BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 60 DEG F (ADJ.)

EXISTING CLASSROOM RELIEF SYSTEM:
EXISTING RELIEF SYSTEM SHALL OPERATE DURING OCCUPIED MODES AND BE OFF DURING UNOCCUPIED MODE.

3 M701 — VRF UNIT VENTILATOR CONTROLS SCHEMATIC
1/8" = 1'-0"

ROOF TOP UNIT CONTROLS - POINTS LIST

Point #	Point Description	HARDWARE POINTS AI	AO	DI	DO	SOFTWARE POINTS AV	DV	SCHED	ALARM	TREND	GRAPHIC	NOTES
1	OUTSIDE AIR DAMPER		X								X	
2	OUTDOOR AIR FILTER CHANGE							X			X	
3	OUTDOOR AIR FILTER DIFFERENTIAL PRESSURE			X						X	X	
4	OUTSIDE AIR TEMPERATURE	X								X	X	
5	OUTSIDE AIR HUMIDITY	X								X	X	
6	FREEZESTAT - ELECTRIC MULTIPLE CONTACT			X						X	X	
7	MIXED AIR TEMPERATURE	X								X	X	
8	SUPPLY FAN START/STOP				X							
9	SUPPLY FAN STATUS (CURRENT SENSING SWITCH)			X						X		
10	SUPPLY FAN SPEED		X							X		
11	HOT WATER VALVE		X							X		
12	RETURN AIR DAMPER		X								X	
13	EXHAUST FAN START/STOP				X					X		
14	EXHAUST FAN STATUS (CURRENT SENSING SWITCH)			X								
15	EXHAUST FAN SPEED		X									
16	EXHAUST AIR DAMPER				X						X	
17	DISCHARGE AIR TEMP	X								X	X	
18	SPACE TEMPERATURE SENSOR	X								X		
19	SPACE HUMIDITY SENSOR	X								X		
20	CO2 SENSOR	X								X		
21	CO2 SENSOR	X								X		



SETPOINTS

OCCUPIED HEATING – 70°F
OCCUPIED COOLING - 73°F

UNOCCUPIED HEATING – 63°F
UNOCCUPIED COOLING - 85°F

FREEZE PROTECTION

THE FREEZE STAT SETPOINT SHALL BE 40 DEGF. IF THE FREEZE STAT TRIPS, THE FANS SHALL STOP, THE DAMPERS SHALL MODULATE TO FULL RETURN POSITION AND THE HEATING COIL VALVE SHALL OPEN 50%. AN ALARM SHALL BE SENT.

HEATING MODE

THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN THE HEATING SETPOINT TEMPERATURE

ECONOMIZER MODE

IF THE OUTDOOR ENTHALY IS LESS THAN THE INDOOR INTHALPY AND THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT, ECONOMIZER COOLING SHALL BE ENABLED. THE MIXED AIR DAMPERS SHALL USE OUTSIDE AIR TO MAINTAIN THE COOLING SETPOINT. THE EXHAUST FAN SHALL MODULATE IN SYNC WITH THE OUTSIDE AIR DAMPER POSITION TO MAINTAIN SPACE PRESSURE BALANCE.

COOLING MODE

THE MIXED DAMPERS SHALL BE AT THE MINIMUM OCCUPIED POSITION OR THE POSITION DICTATED BY THE DCV CONTROL, WHICHEVER IS GREATER. THE ACCU SHALL START AND MODULATE TO MAINTAIN THE SPACE TEMPERATURE. THE MINIMUM SUPPLY AIR TEMPERATURE SHALL BE 50°F.

DCV CONTROL

OCCUPIED MODE

THE MIXED AIR DAMPERS SHALL MODULATE TO MAINTAIN A CO2 SETPOINT OF 800 PPM (ADJ). THE MIXED AIR DAMPERS SHALL BEGIN TO MODULATE OPEN WHEN THE INDOOR CO2 LEVEL IS 100 PPM OVER THE OUTDOOR CO2 LEVEL.

THE MINIMUM POSITION OF THE OA DAMPER SHALL BE SET BY THE AIR BALANCER TO MAINTAIN THE MINIMUM AIR FLOW SHOWN ON THE SCHEDULE.

PURGE MODE

PRE-OCCUPANCY – THERE SHALL BE A 30 MINUTE PRE-OCCUPANCY PURGE WITH THE OUTSIDE DAMPERS SET TO THE MAXIMUM AIR FLOW POSITION SHOWN ON THE SCHEDULE AS SET BY THE AIR BALANCER.

POST-OCCUPANCY FLUSH - THE POST-OCCUPANCY FLUSH SHALL OPERATE UNTIL CO2 LEVELS ARE REDUCED TO 450 PPM. DURING POST-OCCUPANCY FLUSH THE DAMPERS SHALL BE IN THE MINIMUM VENTILATION POSITION AS SHOWN ON THE AHU SCHEDULE.

SENSOR FAILURE

IF A CO2 SENSOR FAILS, THE MIXED AIR DAMPERS SHALL OPEN TO THE MAXIMUM POSITION.

COMMISSIONING AND RECORD KEEPING REQUIREMENTS

THE CO2 SENSOR CALIBRATION SHALL BE CHECKED ONE YEAR AFTER INITIAL COMMISSIONING IS COMPLETED.
CO2 CONCENTRATION READINGS SHALL BE LOGGED BY THE BMS ON A 15-MINUTE INTERVAL. RECORDS MUST BE KEPT FOR A MINIMUM OR THREE YEARS.

SAFETIES

ALARMS SHALL BE PROVIDED AS FOLLOWS:

AN ALARM SHALL BE GENERATED BY EACH OF THE ALARMS SHOWN ON THE POINTS LIST.
- IF ANY DIGITAL STATUS POINT DISAGREES WITH THE COMMAND FOR MORE THAN 5 MINUTES AN ALARM SHALL BE GENERATED
- IF ANY TEMPERATURE SETPOINT IS MORE THAN 4 DEGREES FROM THE SETPOINT FOR MORE THEN 10 MINUTES, AN ALARM SHALL BE GENERATED
- FILTER CHANGE NOTIFICATION: FILTER DIFFERENTIAL PRESSURE EXCEEDS SETPOINT (ADJ.).
- FAN SHUTDOWN UPON DUCT SMOKE DETECTOR ACTIVATION

FAN OPERATION

OCCUPIED MODE
THE SUPPLY FAN SHALL BE RUN CONTINUOUSLY UNLESS SHUTDOWN BY SAFETIES. THE SUPPLY AIR FANS SPEED SHALL BE OPTIMIZED IN THE FIELD DURING SYSTEM BALANCING TO DELIVER THE SCHEDULED SUPPLY AIRFLOW.

THE OA AND RA DAMPERS SHALL BE POSITIONED TO DELIVER THE APPROPRIATE AMOUNT OF OUTSIDE AIR AS DESCRIBED BELOW.

THE EXHAUST FAN SHALL RUN CONTINUOUSLY. THE SPEED SHALL BE MODULATED ACCORDING TO THE OUTSIDE AIR DAMPER POSITION. THE MODULATION SCHEDULE SHALL BE SET BY THE AIR BALANCER.

UNOCCUPIED MODE

GIDNEY SEQUENCE

- THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. EXISTING FINNED TUBE RADIATION SHALL MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE.

HILLS SEQUENCE-

THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. IF THE SETPONT TEMPERATURE DROPS TWO DEGREES BELOW THE UNOCCUPIED SETPOINT, THE SUPPLY FAN SHALL START AND THE HEATING COIL SHALL OPEN TO 50% POSITION UNTIL THE SPACE TEMPERATURE IS 2 DEGREES ABOVE THE SETPOINT. THE FANS SHALL STOP AND THE HEATING VALVE SHALL CLOSE.

2 M701 — ROOF TOP UNIT CONTROLS
1/8" = 1'-0"

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
2	9/3/2024	ADDENDUM#2
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: MECHANICAL CONTROLS

DRAWING NUMBER: M701

11/11/2024 3:58:10 PM

ELECTRICAL LEGEND

ELECTRICAL GENERAL NOTES

1. FOR EXACT LOCATIONS AND SURFACE FINISH CONDITIONS OF CEILINGS, WALLS, OR FLOORS, REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO HAZARDOUS MATERIALS DRAWINGS FOR LOCATIONS OF HAZARDOUS OR POSSIBLE HAZARDOUS MATERIALS BEFORE PERFORMING ANY WORK ON EXISTING STRUCTURES.
3. FOR EXACT LOCATION OF FACILITY EXPANSION JOINTS, FIRE RATED WALLS, AND SMOKE WALLS, REFER TO ARCHITECTURAL DRAWINGS.
4. FOR EXACT LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES, AND TAMPER SWITCHES REFER TO HVAC / FP DRAWINGS.
5. VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO ROUGH-IN.
6. COORDINATE LOCATIONS OF ALL RECEPTACLES AND LUMINAIRES IN MECHANICAL SPACES WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN TO AVOID CONFLICTS WITH EQUIPMENT AND DUCTWORK.
7. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS NOTED OTHERWISE, EXCEPT FOR PENDANT LIGHTING WHICH ARE TO THE BOTTOM OF THE LUMINAIRE. FOR AREAS WITH DIFFERENT FLOOR LEVELS, HEIGHT IS BASED UPON CLOSEST FLOOR OR LANDING TO DEVICE, EQUIPMENT, OR LUMINAIRE. ELEVATIONS GIVEN ON LEGEND SHEET ARE UNLESS NOTED OTHERWISE ON DRAWINGS.
8. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
9. MINIMUM BRANCH CIRCUIT WIRE SIZE SHALL BE #12 AWG **(EXCEPT LIFE SAFETY/EMERGENCY BRANCH CIRCUIT WIRING WHICH SHALL BE MINIMUM #10 AWG)**. SIZE BRANCH CIRCUIT CONDUCTORS AS PER NEC AND AS SCHEDULED ON THIS DRAWING BASED ON ACTUAL CIRCUIT DISTANCE. INCLUDE GROUND CONDUCTOR DERATINGS.
10. PULL A SEPARATE NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS REQUIRING A NEUTRAL CONNECTION. DERATE CONDUCTORS PER NEC ACCORDINGLY. MULTIWIRE BRANCH CIRCUITS ARE NOT ACCEPTABLE.
11. PROVIDE GROUNDING PER NEC & TIA 607B. PROVIDE GREEN GROUND CONDUCTOR IN ALL BRANCH AND FEEDER CIRCUITS.
12. DO NOT INSTALL ANY NEW WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS, SWITCHBOARDS, SWITCHGEAR, OR TRANSFORMERS.
13. CIRCUIT NUMBERS SHOWN FOR EQUIPMENT TO BE CONNECTED TO EXISTING PANELBOARD(S) IS SHOWN FOR DESIGN INTENT ONLY AND MAY NOT CORRESPOND TO ACTUAL CIRCUIT BREAKER MOUNTING POSITION IN THE PANEL. UPDATE THE RECORD DRAWINGS & PANELBOARD DIRECTORY WITH THE ACTUAL CIRCUIT NUMBERS USED TO CORRESPOND TO THE PANEL DIRECTORY.
14. CONFIRM ALL LABELS AND ROOM NUMBERS WITH OWNER PRIOR TO FINALIZING LABELING AND PROGRAMMING.
15. COORDINATE FINAL OUTLET LOCATION WITH ALL TRADES AND FURNITURE/MILLWORK PLACEMENT PRIOR TO ROUGH-IN. GENERAL CONTRACTOR SHALL PROVIDE ALL DRILLING AND GROMMETING IN FURNITURE/CASEWORK FOR CORD ACCESS IF REQUIRED.
16. INSTALL DATA OUTLETS 6" ADJACENT TO ASSOCIATED ELECTRICAL OUTLET.
17. SWITCHES SHOWN SIDE BY SIDE OR GANGED SHALL BE INSTALLED UNDER A COMMON COVERPLATE, UNLESS NOTED OTHERWISE.
18. PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, CEILINGS, & ROOFS AS CALLED OUT ON ARCHITECTURAL PLANS. PROVIDE ACOUSTICAL SEALANT AT PENETRATIONS THROUGH ALL NON-FIRE RATED WALLS, FLOORS, & CEILINGS.
19. PROVIDE CONDUIT EXPANSION JOINTS AT ALL EXPANSION JOINTS AS CALLED OUT ON ARCHITECTURAL PLANS.
20. SITE PLAN CONDUIT ROUTING SHOWN FOR INTENT. REFERENCE CIVIL DRAWINGS FOR UNDERGROUND COORDINATION AND DISTANCE OF RUNS. COORDINATE WITH ALL TRADES.
21. FINAL QUANTITY AND LOCATION OF WIRELESS DATA OUTLETS IDENTIFIED ON THE FLOOR PLANS SHALL BE VERIFIED WITH THE WIRELESS ACCESS POINT MANUFACTURER BASED ON THE MODEL NUMBER UTILIZED PRIOR TO INSTALLATION/ROUGH-IN.

ELECTRICAL DEMOLITION GENERAL NOTES

1. REMOVE ALL ELECTRICAL EQUIPMENT ON OR IN EXISTING WALLS, CEILINGS AND PARTITIONS WHICH ARE TO BE DEMOLISHED. WHERE EQUIPMENT IS SCHEDULED TO BE REMOVED, ABANDON CONCEALED RACEWAY AND REMOVE CONDUCTORS BACK TO SOURCE OR LAST SCHEDULED DEVICE TO REMAIN. REMOVE EXPOSED RACEWAY AND CONDUCTORS BACK TO POWER SOURCE OR LAST DEVICE SCHEDULED TO REMAIN IN ALL OTHER AREAS.
2. WHERE EXISTING WALLS ARE TO REMAIN, REMOVE ALL EXPOSED RACEWAYS, SURFACE AND RECESSED OUTLET BOXES, ETC. WHICH ARE NOT TO BE REUSED. WHERE NEW CONDUITS AND OUTLETS ARE TO BE ADDED TO EXISTING WALLS IN FINISHED ROOMS, THEY SHALL BE CONCEALED BY CUTTING AND PATCHING THE WALLS UNLESS OTHERWISE NOTED.
3. UTILIZE EXISTING OUTLET BOXES AND RACEWAY SYSTEMS WHEREVER PRACTICAL IN RENOVATION AREAS. WHERE SUCH EXISTING OUTLET BOXES ARE USED, INSTALL NEW WIRING DEVICES, COVERPLATES, AND WIRING. PROVIDE SPECIAL COVERPLATES TO SUIT FIELD CONDITIONS.
4. REARRANGE EXISTING CONDUITS AND WIRING TO ACCOMMODATE NEW CIRCUIT ARRANGEMENTS INDICATED AND TO MAINTAIN CONTINUITY OF EXISTING CIRCUITS FEEDING DEVICES THAT ARE TO REMAIN.
5. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REINSTALL EXISTING ELECTRICAL EQUIPMENT TO ACCOMMODATE THE WORK OF OR DISTURBED BY ALL TRADES.
6. STORE REMOVED ELECTRICAL EQUIPMENT SUCH AS LUMINAIRES, POWER AND COMMUNICATION DEVICES, DISTRIBUTION EQUIPMENT, CONTROLLERS, ETC. ON JOB SITE FOR REUSE UNTIL SUBSTANTIAL COMPLETION OR PROJECT CLOSEOUT. PROVIDE OWNER RIGHT OF FIRST REFUSAL OF ELECTRICAL EQUIPMENT OTHERWISE REMOVE THOSE FROM SITE AT CONTRACTORS EXPENSE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS THAT THE OWNER DOES NOT WISH TO SALVAGE.
7. EXISTING DEVICE LOCATIONS WERE IDENTIFIED AS COMPLETELY AS POSSIBLE BY A SITE SURVEY AND BY RECORD DOCUMENTS AS AVAILABLE. BE RESPONSIBLE FOR PROPER DEMOLITION AND REWORK OF DEVICES NOT SHOWN ON DRAWINGS BUT NECESSARY FOR PROJECT RENOVATIONS TO CONFORM WITH INTENT OF DOCUMENTS. VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL DEMOLITION WORK REQUIRED TO COMPLETE THE NEW CONSTRUCTION. CONTRACTOR SHALL PROVIDE IN BASE BID A NOMINAL AMOUNT OF UNKNOWN BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING BEING REMOVED OR RELOCATED FOR NEW WORK.
8. WHERE DEMOLITION OF DEVICE OR EQUIPMENT AND REMOVAL OF CONDUIT OR OTHER ACCESSORY LEAVES OPENINGS IN THE FLOORS, WALLS, OR CEILINGS, SAME SHALL BE PATCHED AND PAINTED TO MATCH EXISTING ADJACENT FINISH. ALL OPENINGS IN FLOORS SHALL BE PINNED WITH REBAR.
9. REFER TO DEMOLITION DRAWINGS & NOTES OF ALL CONTRACTS OR TRADES FOR COORDINATION.
10. IN AREAS OF DEMOLITION WHERE THE REMOVAL OF ELECTRICAL EQUIPMENT INTERFERES WITH THE NORMAL BUILDING OPERATIONS AND SYSTEMS, CONSULT WITH THE OWNER PRIOR TO PERFORMING ANY DEMOLITION.
11. WHERE UNFORESEEN CONDITIONS CONFLICT WITH CONTRACT DOCUMENTS, SUBMIT AN RFI PRIOR TO PROCEEDING WITH ANY WORK.
12. WHERE DEVICES ARE SCHEDULED FOR RELOCATION, DISCONNECT AND REMOVE EXISTING DEVICE AND REMOVE ASSOCIATED WIRING. RELOCATE DEVICE AS SHOWN, EXTEND WIRING AS REQUIRED, AND MATCH EXISTING.
13. WHERE REMOVALS AFFECT EXISTING CIRCUITS SCHEDULED TO REMAIN, MAINTAIN CONTINUITY OF POWER TO THESE CIRCUITS AND EXTEND WIRING AS NEEDED.
14. WHERE ANY EMPTY BACKBOXES OR EMPTY JUNCTION BOXES REMAIN DUE TO ELECTRICAL DEMOLITION, PROVIDE COVERPLATE(S) OVER EXISTING BOX(ES).
15. WHERE EQUIPMENT CONNECTIONS ARE SHOWN, REMOVE ELECTRICAL CONNECTION, CONDUIT AND WIRE BACK TO POWER SOURCE. DISCONNECT AND REMOVE ASSOCIATED CONTROLLER SERVING EQUIPMENT AND ASSOCIATED CONTROL WIRING.
16. DISCONNECT AND REMOVE EXISTING ELECTRIC WORK NOT NECESSARY FOR EXISTING OR NEW INSTALLATION, BUT INTERFERING WITH NEW CONSTRUCTION.
17. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ANY AND ALL EXISTING ELECTRIC WORK REQUIRED TO REMAIN, BUT INTERFERING WITH NEW CONSTRUCTION.
18. WHERE DEMOLITION NOTES SCHEDULE EXISTING WIRING DEVICES, LIGHTING FIXTURES, SYSTEMS DEVICES, EQUIPMENT CONNECTIONS, ETC. TO BE "DISCONNECTED AND REMOVED IN THE ENTIRETY", THE CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING LIGHTING FIXTURE, WIRING DEVICES, COVERPLATES, BRANCH CIRCUIT WIRING, CONDUIT OR RACEWAY, OUTLET AND/OR SPLICE BOX(ES) ETC. BACK TO EITHER LAST DEVICE SCHEDULED TO REMAIN, OR BACK TO POWER SOURCE.
19. PROPERLY DISPOSE OF ALL PCB CONTAINING FLUORESCENT BALLASTS MANUFACTURED PRIOR TO 1980 ACCORDING TO STATE AND FEDERAL REGULATIONS.
20. IF ADDITIONAL SUSPECT ASBESTOS-CONTAINING MATERIALS ARE DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER AND ARCHITECT TO WITH REGARD TO CONDUCTING ADDITIONAL BULK SAMPLING AND ABATEMENT AT THE OWNER'S EXPENSE.
21. **DISCONNECT AND REMOVE RECEPTACLES, LIGHTING, & ABANDONED DEVICES & RACEWAY. UNLESS NOTED OTHERWISE, LOW VOLTAGE CONTROL WIRING FOR PROCESS EQUIPMENT IS EXCLUDED FROM DEMOLITION SCOPE. 120V OR HIGHER CONNECTIONS TO PROCESS EQUIPMENT IS INCLUDED IN SCOPE. PREPARE EQUIPMENT FOR RECONNECTION WHERE SHOWN.**

DEVICE SUBSCRIPTS

+xx	HEIGHT OF DEVICE ABOVE FINISHED FLOOR (IN INCHES)
5	NUMERAL INDICATES BRANCH CIRCUIT NUMBER (POWER & LIGHTING)/CANDELA RATING (FIRE ALARM DEVICES)
A	WITH AUXILIARY CONTACTS
AC	INSTALL ABOVE COUNTER
CD	CORD DROP RECEPTACLE
CL	INSTALL FLUSH IN CEILING
CLS	INSTALL ON SURFACE OF CEILING
COP	RECEPTACLE FOR COPIER , INSTALL 18" AFF
COF	RECEPTACLE FOR COFFEE , INSTALL 44" AFF
ER	EXISTING TO BE REMOVED
ERL	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
EXP	EXPLOSION PROOF
FL	INSTALL FLUSH IN FLOOR
FB	INSTALL IN FLOORBOX/POKETHRU
FRA	FIRE RATED ASSEMBLY
GFCI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
GFI	GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED
HA	HIGH ABUSE COVERPLATE WITH CENTER PIT REJECT SCREWS
IG	ISOLATED GROUND RECEPTACLE
K	KEY OPERATED
L	LOCATOR STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS OFF OR UNPOWERED)
LV	LOW VOLTAGE
MCW	RECEPTACLE FOR MICROWAVE , INSTALL IN UPPER CABINET, COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
NL	NIGHT LIGHT LUMINAIRE (UNSWITCHED / INTEGRAL NIGHT LIGHT STYLE RECEPTACLE
OS	OCCUPANCY SENSOR (AUTOMATIC 'ON' LIGHTING SENSOR SWITCH)
P	PILOT STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS ON OR POWERED)
PH	FOR PHONE, INSTALL 54" AFF
PJ	RECEPTACLE FOR PROJECTOR , INSTALL FLUSH IN CEILING
REF	RECEPTACLE FOR REFRIGERATOR , INSTALL 44" AFF
S	INSTALL ON SURFACE
SP	SURGE PROTECTOR STYLE RECEPTACLE
SR	INSTALL IN SURFACE RACEWAY
SW	SPLIT WIRED RECEPTACLE FOR REMOTE SWITCHING
TR	TAMPER RESISTANT
TS	DIGITAL ELECTRONIC PROGRAMMABLE TIME SWITCH (LIGHTING SWITCH)
TV	FOR TELEVISION/MONITOR, INSTALL 72" AFF
UC	INSTALL UNDER COUNTER, COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
USB	RECEPTACLE WITH USB CHARGING PORTS
VEND	RECEPTACLE FOR VENDING MACHINE, INSTALL 44" AFF
VS	VACANCY SENSOR (MANUAL 'ON' LIGHTING SENSOR SWITCH)
WG	WIRE GUARD
WP	WEATHERPROOF DEVICE / WEATHERPROOF WHILE-IN-USE EXTRA DUTY COVER & WEATHER RESISTANT RECEPTACLE

ABBREVIATIONS

°	DEGREES
Δ	DELTA
Ω	OHMS
Ø	PHASE
Y	WYE
A	AMPERE
AFCI	ARC-FAULT CIRCUIT INTERRUPTING
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ALUM	ALUMINUM
AM	AMMETER
ANN	ANNUNCIATOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKBD	BACKBOARD
BLDG	BUILDING
C	CONDUIT
CTV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CM	CONSTRUCTION MANAGER
CO	COMPANY/CARBON MONOXIDE
COAX	COAXIAL CABLE
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DN	DOWN
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DVR	DIGITAL VIDEO RECORDER
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRIC
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE DEVICE
EQUIP	EQUIPMENT
EXH	EXHAUST
EPRF	EXPLOSION PROOF
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FLR	FLOOR
FU S/W	FUSED SWITCH
FTL	FEED THRU LUGS
GC	GENERAL CONTRACTOR
GEC	GROUND ELECTRODE CONDUCTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
GFI	GROUND FAULT INTERRUPTING
G	GROUND
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HSKPG	HOUSEKEEPING
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ (CYCLES/SECOND)
ID	INSIDE DIAMETER
IMC	INTERMEDIATE METAL CONDUIT
IP	INTERNET PROTOCOL
J	JUNCTION BOX
kAIC	KILOAMPERE INTERRUPTING CURRENT
kAIR	KILOAMPERE INTERRUPTING RATING
KO	KNOCK OUT
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kW	KILOWATT
kWh	KILOWATT HOUR
LAN	LOCAL AREA NETWORK
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LS	LIFE SAFETY
LTD	LONG TIME DELAY
LTG	LIGHTING
LV	LOW VOLTAGE
MAG	MAGNETIC
MAN	MANUAL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR/ METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPERES
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCS	MOLDED CASE SWITCH
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANELBOARD
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MINERAL INSULATED CABLE
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MM	MULTIMODE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N	NEUTRAL
NA	NOT APPLICABLE
NCC	NORMALLY CLOSED CONTACT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NOC	NORMALLY OPEN CONTACT/ NETWORK OPERATIONS CENTER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/OWNER INSTALLED
OH	OVERHEAD
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PULLBOX
PC	PERSONAL COMPUTER
PH	PHASE
PNL	PANEL
POE	POWER OVER ETHERNET
PRI	PRIMARY
PTZ	PAN TILT ZOOM
PVC	POLYVINYL CHLORIDE
PWR	POWER
RCP	REFLECTED CEILING PLANS
RECPT	RECEPTACLE
REF	REFRIGERATOR
RFID	RADIO FREQUENCY IDENTIFICATION DEVICE
RM	ROOM
RMC	RIGID METAL CONDUIT
SCH	SCHEDULE
SDMPR	SMOKE DAMPER
SEC	SECONDARY
SF	SUPPLY FAN
SFL	SUB FEED LUGS
SM	SINGLE MODE
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SPEC	SPECIFICATION
SPKR	SPEAKER
SST	STAINLESS STEEL
STD	SHORT TIME DELAY
STP	SHIELDED TWISTED PAIR
STR	STARTER
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TERM	TERMINAL
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPERE
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VEND	VENDING MACHINE
VSD	VARIABLE SPEED DRIVE
VOIP	VOICE OVER INTERNET PROTOCOL
VPI	VACUUM-PRESSURE IMPREGNATED
W	WATT
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
WR	WEATHER RESISTANT
XFMR	TRANSFORMER

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

ELECTRICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS

DRAWING NUMBER:

E001

11/6/2024 12:45:25 PM

ELECTRICAL LEGEND

DEVICE SUBSCRIPTS

II	ROMAN NUMERAL INDICATES QUANTITY OF GANGED DEVICES UNDER COMMON FACEPLATE
+xx	HEIGHT OF DEVICE ABOVE FINISHED FLOOR (IN INCHES)
a	LOWER CASE LETTER(S) INDICATES SWITCH CONTROL ARRANGEMENT
5	NUMERAL INDICATES BRANCH CIRCUIT NUMBER (POWER & LIGHTING)/CANDELA RATING (FIRE ALARM DEVICES)
A	WITH AUXILIARY CONTACTS
AC	INSTALL ABOVE COUNTER, AT 40" AFF. COORDINATE WITH GC
B	REMOVE DEVICE AND INSTALL BLANK COVERPLATE
BF	BLANKFACE GFCI
CD	CORD DROP RECEPTACLE
CH	CLOCK HANGER RECEPTACLE
CL	INSTALL FLUSH IN CEILING
CLS	INSTALL ON SURFACE OF CEILING
C*	CONTROL POINT IDENTIFIER (* INDICATES CONTROL NUMBER)
COP	RECEPTACLE FOR COPIER , INSTALL 18" AFF
COF	RECEPTACLE FOR COFFEE , INSTALL 44" AFF
D	DIMMER SWITCH (LIGHTING CONTROL)
E	EXISTING BACKBOX TO REMAIN AND BE REUSED
EN	EXISTING BACKBOX WITH NEW DEVICE
EO	EQUIPMENT SUPPLIED BY OWNER
EQ	INSTALL IN EQUIPMENT/CASEWORK
ER	EXISTING TO BE REMOVED
ERL	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
EWC	RECEPTACLE FOR WATER COOLER. COORDINATE EXACT LOCATION WITH GC & PC PRIOR TO ROUGH-IN
EXP	EXPLOSION PROOF
FL	INSTALL FLUSH IN FLOOR
FB	INSTALL IN FLOORBOX/POKETHRU
FRA	FIRE RATED ASSEMBLY
GFCI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
GFI	GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED
GFP	FEED THROUGH GROUND FAULT CIRCUIT INTERRUPTING PROTECTED
H	INSTALL HORIZONTALLY
HA	HIGH ABUSE COVERPLATE WITH CENTER PIT REJECT SCREWS
IG	ISOLATED GROUND RECEPTACLE
K	KEY OPERATED
L	LOCATOR STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS OFF OR UNPOWERED)
LV	LOW VOLTAGE
M	INSTALL IN MULLION
M*	MONITORING POINT IDENTIFIER (* INDICATES MONITORING POINT NUMBER)
MCW	RECEPTACLE FOR MICROWAVE , INSTALL IN UPPER CABINET, COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
N	INDICATES NEW DEVICE
NIC	NOT IN CONTRACT/PROVIDE BY OTHERS
NL	NIGHT LIGHT LUMINAIRE (UNSWITCHED / INTEGRAL NIGHT LIGHT STYLE RECEPTACLE
NLG	INTEGRAL NIGHT LIGHT STYLE GFCI RECEPTACLE
O	OCCUPANCY SENSOR (AUTOMATIC 'ON' LIGHTING SENSOR SWITCH)
P	PILOT STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS ON OR POWERED)
PH	FOR PHONE, INSTALL 54" AFF
PI	POWER INDICATING RECEPTACLE
PJ	RECEPTACLE FOR PROJECTOR , INSTALL FLUSH IN CEILING
PP	BACKBOX FOR AUTODOOR PUSH PLATE
R*	RELAY DESIGNATION (* INDICATES RELAY NUMBER)
REF	RECEPTACLE FOR REFRIGERATOR , INSTALL 44" AFF
S	INSTALL ON SURFACE
SP	SURGE PROTECTOR STYLE RECEPTACLE
SR	INSTALL IN SURFACE RACEWAY
SW	SPLIT WIRED RECEPTACLE FOR REMOTE SWITCHING
T	DIGITAL ELECTRONIC INTERVAL TIMER (LIGHTING SWITCH)
TR	TAMPER RESISTANT
TS	DIGITAL ELECTRONIC PROGRAMMABLE TIME SWITCH (LIGHTING SWITCH)
TV	FOR TELEVISION/MONITOR, INSTALL 72" AFF
UC	INSTALL UNDER COUNTER. COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
USB	RECEPTACLE WITH USB CHARGING PORTS
VEND	RECEPTACLE FOR VENDING MACHINE, INSTALL 44" AFF
V	VACANCY SENSOR (MANUAL 'ON' LIGHTING SENSOR SWITCH)
W	INSTALL 44" AFF
WG	WIRE GUARD
WP	WEATHERPROOF DEVICE / WEATHERPROOF WHILE-IN-USE EXTRA DUTY COVER & WEATHER RESISTANT RECEPTACLE
WPS	WEATHERPROOF SPRING LOADED COVER (WEATHERPROOF WHEN CLOSED), WEATHER RESISTANT RECEPTACLE
WR	WEATHER RESISTANT DEVICE/WEATHER RESISTANT RECEPTACLE
Z*	DEVICE ZONE IDENTIFIER (* INDICATES ZONE NUMBER)

GENERAL LINEWORK DESCRIPTIONS & DRAWINGS NOTES

- NEW WORK
- EXISTING WORK / FUTURE PROVISIONS / NOT IN CONTRACT WORK
- WORK TO BE REMOVED (DEMO PLANS) - DEVICE AND ALL ASSOCIATED ELECTRICAL WORK SHALL BE REMOVED BACK TO THE SOURCE, UNLESS NOTED OTHERWISE / UNDERFLOOR CONDUIT (NEW PLANS)
- WIRE AND / OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
- MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWING
- CALLOUT BOUNDARY - DETAIL AND / OR SECTION REFERENCE / SCOPE OF WORK
- BRANCH CIRCUIT BOUNDARY
- (#) DRAWING KEYED NOTES
- (#) BRANCH CIRCUITING NOTES
- (#) DEMO NOTE / FEEDER IDENTIFICATION
- (#) KITCHEN / LAB EQUIPMENT TAG
- SYMBOL WITH TAIL INDICATES WALL INSTALLATION, HEIGHT AS INDICATED
- INDICATES MULTIPLE DEVICES OF DIFFERENT TYPES INSTALLED UNDER COMMON COVERPLATE AT ONE LOCATION (DEVICES SHALL BE INSTALLED UNDER A COMMON COVERPLATE)

BRANCH CIRCUIT CONDUCTOR SIZING

CIRCUIT NOTATION:

11,13, — CIRCUIT NUMBER(S)
1LNL1 — SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)

PROVIDE MINIMUM WIRE SIZE AS FOLLOWED UNLESS NOTED OTHERWISE:
20A CB - #12 AWG
30A CB - #10 AWG
40A CB - #8 AWG
50A CB - #8 AWG
INCREASE SIZE OF CONDUCTOR FOR DISTANCE AS SHOWN BELOW IN 20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE.

20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE:

CONDUCTOR SIZE (AWG)	#12	#10	#8	#6	#4
MAXIMUM BRANCH CIRCUIT LENGTH AT 120V (FEET)	90	140	225	355	565
MAXIMUM BRANCH CIRCUIT LENGTH AT 277V (FEET)	205	325	520	825	1310

NOTES:

1. INCREASE ALL BRANCH CIRCUIT CONDUCTORS AS INDICATED BASED ON LENGTH OF CIRCUIT, INCLUDING EQUIPMENT GROUNDING CONDUCTOR.
2. TRANSITION FROM LARGER CONDUCTOR SIZE TO #12 AWG FOR FINAL TERMINATION TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN 10' OF OUTLET AND EXTEND #12 AWG CONDUCTORS TO OUTLET.
3. LENGTHS ARE FROM OVERCURRENT PROTECTIVE DEVICE, ALONG CIRCUIT ROUTING, TO CENTER OF EQUIPMENT LOAD.
4. SCHEDULE ASSUMES 12A LOAD, FOR LOADS HIGHER THAN 12A, INCREASE CONDUCTOR SIZE.

RACEWAY, BOXES, & BUSWAY

- LADDER STYLE CABLE TRAY, HUNG ABOVE CEILING OR AS NOTED
- WIRE BASKET, HUNG ABOVE CEILING OR AS NOTED
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CAPPED CONDUIT
- CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY
- SERVICE WEATHERHEAD
- SINGLE CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- DUAL CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- TRIPLE CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- SURFACE RACEWAY ROUTED DOWN FROM CEILING TO HORIZONTAL
- SURFACE RACEWAY ROUTED UP FROM FLOOR TO HORIZONTAL
- SURFACE RACEWAY ENDPIECE
- SURFACE RACEWAY COUPLING
- DATA/POWER INDOOR SERVICE POLE
- MH — MANHOLE
- HH — HANDHOLE
- PP — POWER ASSIST PUSH PLATE BACKBOX- MOUNTED 44" AFF
- PP1 — POWER ASSIST PUSH PLATE BACKBOX- MULLION MOUNTED 44" AFF
- B — DEVICE BOX WITH BLANK COVERPLATE, HEIGHT AS INDICATED
- B — DEVICE BOX WITH BLANK COVERPLATE, INSTALLED IN CEILING
- J — JUNCTION BOX, HEIGHT AS INDICATED
- J — JUNCTION BOX, INSTALLED IN CEILING
- PB — PULL BOX
- SYSTEMS CABINET, SURFACE OR FLUSH AS SHOWN, TOP OF TRIM 74" AFF
- MSB# — MULTI-SERVICE BOX, REFER TO MULTI-SERVICE BOX SCHEDULE FOR DETAILED INFORMATION
- FEEDER BUSWAY HORIZONTAL RUN
- PLUG-IN BUSWAY HORIZONTAL RUN
- BUSWAY VERTICAL RUN
- CBP — BUSWAY CIRCUIT BREAKER PLUG
- BUSWAY COMBINATION DUPLEX RECEPTACLE PLUG
- BUSWAY COMBINATION NEMA RECEPTACLE PLUG
- FSP — BUSWAY FUSED SWITCH PLUG
- MSB1 — MULTISERVICE BOX, # INDICATES DESIGNATION, SEE MULTISERVICE BOX SCHEDULE

ELECTRICAL EQUIPMENT

- DISCONNECT SWITCH, TYPE PER EQUIPMENT CONNECTION SCHEDULE [UNFUSED DISCONNECT SWITCH], SURFACE MOUNTED 48" AFF
- FUSED DISCONNECT SWITCH, SURFACE MOUNTED 48" AFF
- CB — SEPARATELY ENCLOSED CIRCUIT BREAKER, SURFACE MOUNTED 44" AFF
- FUSE (ONE-LINE NOTATION)
- XXXA-3P — CIRCUIT BREAKER (ONE-LINE NOTATION)
- XXXA-3P — LOW VOLTAGE DRAWOUT POWER CIRCUIT BREAKER (ONE-LINE NOTATION)
- XXXA-3P — MEDIUM VOLTAGE DRAWOUT POWER CIRCUIT BREAKER (ONE-LINE NOTATION)
- LOW VOLTAGE INTERRUPTER SWITCH (ONE-LINE NOTATION)
- MEDIUM VOLTAGE INTERRUPTER SWITCH (ONE-LINE NOTATION)
- TRANSFER SWITCH (ONE-LINE NOTATION)
- ISOLATION BYPASS TRANSFER SWITCH (ONE-LINE NOTATION)
- CLOSED TRANSITION TRANSFER SWITCH (ONE-LINE NOTATION)
- M — FRACTIONAL HORSEPOWER MOTOR CONTROLLER, RECESSED 44" AFF OR ABOVE CEILING (MANUAL THERMAL SWITCH)
- COMBINATION MOTOR CONTROLLER/DISCONNECT, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF
- MOTOR CONTROLLER, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF
- VSD / VFD — VARIABLE SPEED DRIVE/VARIABLE FREQUENCY DRIVE
- T — TRANSFORMER (PLAN NOTATION)
- TRANSFORMER (ONE-LINE NOTATION)
- 3-PHASE, 3-WIRE DELTA CONNECTION
- 3-PHASE, 4-WIRE WYE CONNECTION
- 3-PHASE, NEUTRAL UNGROUNDED WYE CONNECTION
- G — XXXKA-3P, LSIA, LSIG — ENGINE-GENERATOR SET (ONE-LINE NOTATION)
- POTENTIAL TRANSFORMER (ONE-LINE NOTATION)
- CURRENT TRANSFORMER (ONE-LINE NOTATION)
- AM — AMMETER (ONE-LINE NOTATION)
- AM — AMMETER SWITCH (ONE-LINE NOTATION)
- VM — VOLTMETER (ONE-LINE NOTATION)
- VM — VOLTMETER SWITCH (ONE-LINE NOTATION)
- DM — DIGITAL METERING MONITOR (ONE-LINE NOTATION)
- M — METER CABINET/SOCKET (ONE-LINE & PLAN NOTATION)
- # — PROTECTIVE RELAY (*INDICATES ANSI FUNCTION, NUMBER INDICATES QUANTITY) (ONE-LINE NOTATION)
- LIGHTING ARRESTER (ONE-LINE NOTATION)
- GC — GENERAL PURPOSE CONTACTOR, 60" AFF
- EC — ELEVATOR CONTACTOR, 60" AFF
- PHOTOVOLTAIC MODULES

ELECTRICAL DEVICES

GENERAL ELECTRICAL DEVICE NOTATION:

SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY) — 15 / 1LNL1 — CIRCUIT # — +30" — INSTALLATION HEIGHT TO CENTER OF DEVICE IN INCHES (IF OTHER THAN SPECIFIED ON LEGEND) — SUBSCRIPT (IF APPLICABLE)

- NEMA 5-20R SIMPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R SIMPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R DUPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R GFCI DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, 18" AFF
- NEMA 5-20R QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R GFCI QUADPLEX (GFCI REC W/ DUPLEX ON LOAD SIDE UNDER COMMON COVERPLATE) RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) SIMPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) SIMPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) DUPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) GFCI DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) QUADPLEX ((DOUBLE DUPLEX) RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) QUADPLEX ((DOUBLE DUPLEX) RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) GFCI QUADPLEX (GFCI REC W/ DUPLEX ON LOAD SIDE UNDER COMMON COVERPLATE) RECEPTACLE, 18" AFF
- NEMA CONFIGURATION TO MATCH INDICATED EQUIPMENT OR AS CALLED OUT, 18" AFF
- MULTIOUTLET PLUGSTRIP, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- SS — START/STOP PUSHBUTTONS, STAINLESS STEEL NEMA 4X BOX WITH NEMA 4X PUSHBUTTONS, 54" AFF
- SPD — SURGE PROTECTION DEVICE, TOP OF ENCLOSURE 74" AFF

PANELBOARDS

PANELBOARD DESIGNATIONS:

A 1 D N H 1

- BUILDING AREA
- LEVEL
- TYPE
- BRANCH
- VOLTAGE
- SEQUENCE NUMBER
- NUMBERS IN SEQUENCE - 1,2,3, ETC.

VOLTAGE:
- H — 480Y/277V
- L — 208V/120V OR 240V

BRANCH:
- N — NORMAL BRANCH
- G — GENERATOR POWER
- S — LIFE SAFETY BRANCH (NEC 517)
- C — CRITICAL BRANCH (NEC 517)
- E — EQUIPMENT BRANCH (NEC 517)
- M — MIXED EXISTING BRANCH
- E — EMERGENCY BRANCH (NEC 700)
- S — STANDBY BRANCH (NEC 701)
- O — OPTIONAL BRANCH (NEC 702)

TYPE:
- D — DISTRIBUTION PANELBOARD
- B — BRANCH CIRCUIT PANELBOARD
- I — ISOLATED PANELBOARD
- K — KITCHEN PANELBOARD
- L — LIGHTING PANELBOARD
- R — RECEPTACLE PANELBOARD

LEVEL:
- B — BASEMENT LEVEL
- G — GROUND LEVEL
- 1 — LEVEL 01
- 2 — LEVEL 02
- M — MEZZANINE LEVEL

BUILDING AREA:
- A — AREA A *(PROJECT SPECIFIC)*
- B — AREA B
- C — AREA C

PANELBOARD - ONE-LINE NOTATION:

208/120V OR 240V SYSTEM
480/277V SYSTEM
SHADING INDICATES BRANCH TYPE
MCB — TEXT INDICATES LUG/ BREAKER TYPE
150A-3P — FEEDER BREAKERS (BRANCH BREAKERS SHOWN ON EACH PANELBOARD SCHEDULE)

PANELBOARD - FLOOR PLAN NOTATION:

DOOR STYLE (DESIGNATES VOLTAGE):
- 208/120V OR 240V SYSTEM
- 480/277V SYSTEM

SIZE (DESIGNATES PANELBOARD TYPE):
- PANELBOARD
- DISTRIBUTION PANELBOARD

FILL (DESIGNATES BRANCH TYPE):
- NORMAL BRANCH PANELBOARD
- NEC 700 EMERGENCY BRANCH PANELBOARD
- NEC 701 STANDBY BRANCH PANELBOARD
- NEC 702 OPTIONAL BRANCH PANELBOARD

EQUIPMENT DESIGNATIONS

A 1 T 1

- BUILDING AREA
- LEVEL
- EQUIPMENT NAME
- SEQUENCE NUMBER
- NUMBERS IN SEQUENCE - 1,2,3, ETC.

EQUIPMENT NAME:
- ATSF — AUTOMATIC TRANSFER SWITCH, FIRE PUMP
- ATSS — AUTOMATIC TRANSFER SWITCH, LIFE SAFETY (NEC 517)
- ATSC — AUTOMATIC TRANSFER SWITCH, CRITICAL (NEC 517)
- ATSE — AUTOMATIC TRANSFER SWITCH, EQUIPMENT (NEC 517)
- ATSM — AUTOMATIC TRANSFER SWITCH, MIXED EXISTING
- ATSE — AUTOMATIC TRANSFER SWITCH, EMERGENCY (NEC 700)
- ATSS — AUTOMATIC TRANSFER SWITCH, STANDBY (NEC 701)
- ATSO — AUTOMATIC TRANSFER SWITCH, OPTIONAL (NEC 702)
- CB — CIRCUIT BREAKER
- DS — UNFUSED DISCONNECT SWITCH
- DT — DAY TANK
- EC — ELEVATOR CONTACTOR
- FAP — FIRE ALARM ANNUNCIATOR
- FATC — FIRE ALARM TERMINAL CABINET
- FDS — FUSED DISCONNECT SWITCH
- GC — GENERAL PURPOSE CONTACTOR
- IDRS — INTEGRATED DATA CENTER RACK SYSTEM
- IEC — INTERCOM EQUIPMENT CABINET
- IPC — INTEGRATED POWER CENTER
- LC — LIGHTING CONTACTOR
- LCC — LIGHTING CONTROL CABINET
- LRC — LIGHTING RELAY CABINET
- LVS — LOW VOLTAGE POWER SWITCHGEAR
- MCCE — MOTOR CONTROL CENTER, EQUIPMENT (NEC 517)
- MCCN — MOTOR CONTROL CENTER, NORMAL
- MCCO — MOTOR CONTROL CENTER, OPTIONAL (NEC 702)
- MCCS — MOTOR CONTROL CENTER, STANDBY (NEC 701)
- MMC — MODULAR METER CENTER
- MS — METER SOCKET
- MTSS — MANUAL TRANSFER SWITCH, STANDBY (NEC 701)
- MTSO — MANUAL TRANSFER SWITCH, OPTIONAL (NEC 702)
- MVR — MEDIUM VOLTAGE REGULATOR
- MVS — MEDIUM VOLTAGE SWITCHGEAR
- PBL — PLUG-IN BUSWAY LIGHTING
- PBP — PLUG-IN BUSWAY POWER
- PSS — PRIMARY SUBSTATION
- PSWGR — PARALLELING SWITCHGEAR
- RUPS — ROTARY HYBRID UNINTERRUPTIBLE POWER SUPPLY
- SPD — SURGE PROTECTIVE DEVICE
- SWBDN — SWITCHBOARD, NORMAL
- SWBDS — SWITCHBOARD, LIFE SAFETY (NEC 517)
- SWBDC — SWITCHBOARD, CRITICAL (NEC 517)
- SWBDE — SWITCHBOARD, EQUIPMENT (NEC 517)
- SWBDE — SWITCHBOARD, EMERGENCY (NEC 700)
- SWBDS — SWITCHBOARD, STANDBY (NEC 701)
- SWBDO — SWITCHBOARD, OPTIONAL (NEC 702)
- SWGR — SWITCHGEAR
- T — TRANSFORMER
- TBTP — TELECOMMUNICATION BACKBONE TERMINATION PANEL
- TDTP — TELECOMMUNICATION DEVICE TERMINATION PANEL
- TMGR — TELECOMMUNICATION MAIN GROUND BUS
- TMGB — TELECOMMUNICATION ROOM GROUND BUS
- TC — TIME CLOCK
- UPS — UNINTERRUPTIBLE POWER SUPPLY
- USSHV — UNIT SUBSTATION AT 480Y/277 SECONDARY VOLTAGE
- USSLV — UNIT SUBSTATION AT 208Y/120 SECONDARY VOLTAGE

LEVEL:
- B — BASEMENT LEVEL
- G — GROUND LEVEL
- 1 — LEVEL 01
- 2 — LEVEL 02
- M — MEZZANINE LEVEL

BUILDING AREA:
- A — AREA A *(PROJECT SPECIFIC)*
- B — AREA B
- C — AREA C

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024

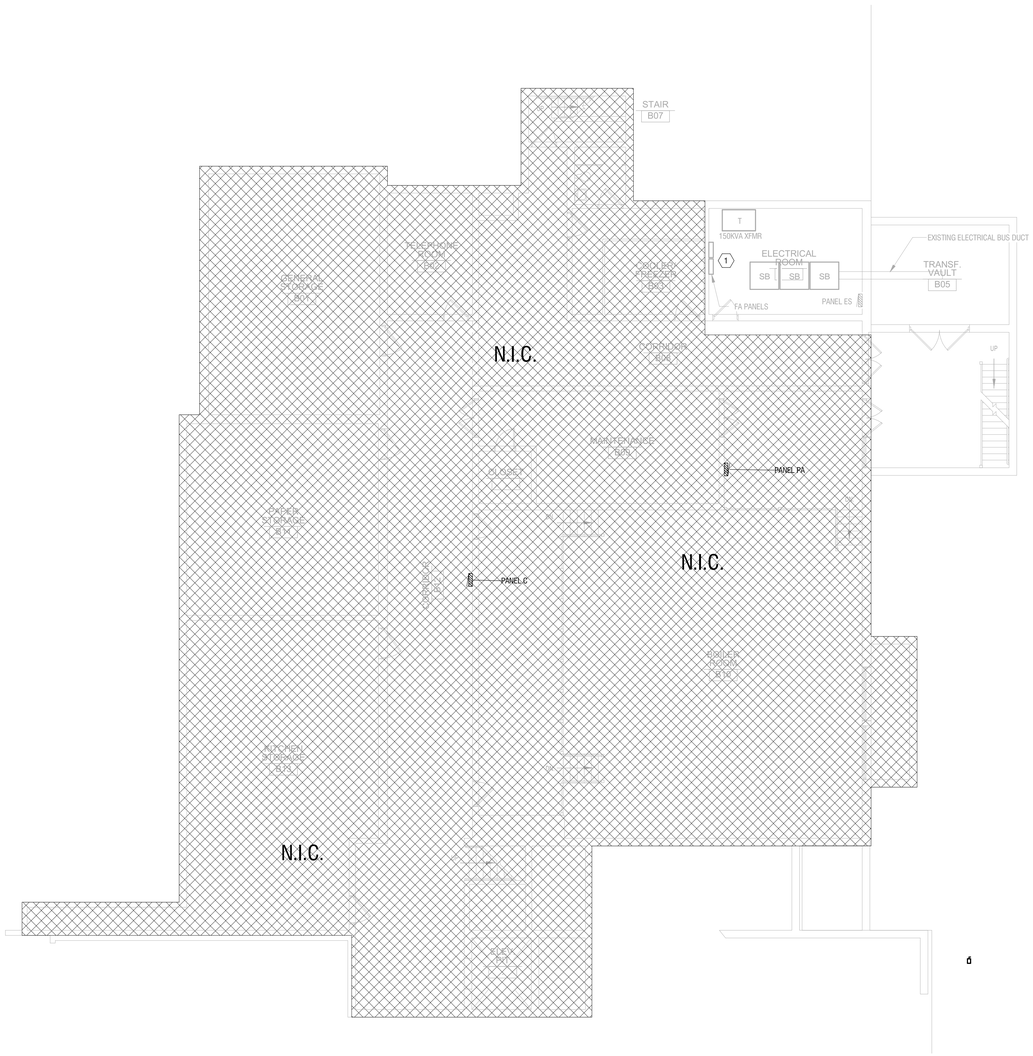
DRAWING NAME:

ELECTRICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS

DRAWING NUMBER:

E002

11/6/2024 12:45:26 PM



1 E100 BASEMENT ELECTRICAL PLAN

1/8" = 1'-0"

KEY NOTES:

1 PROVIDE TEMPORARY POWER TO BUILDING FIRE ALARM CONTROL PANEL(S) DURING CONSTRUCTION. COORDINATE EXACT LOCATION(S) WITH OWNER.

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

BASEMENT ELECTRICAL POWER PLAN

DRAWING NUMBER:

E100

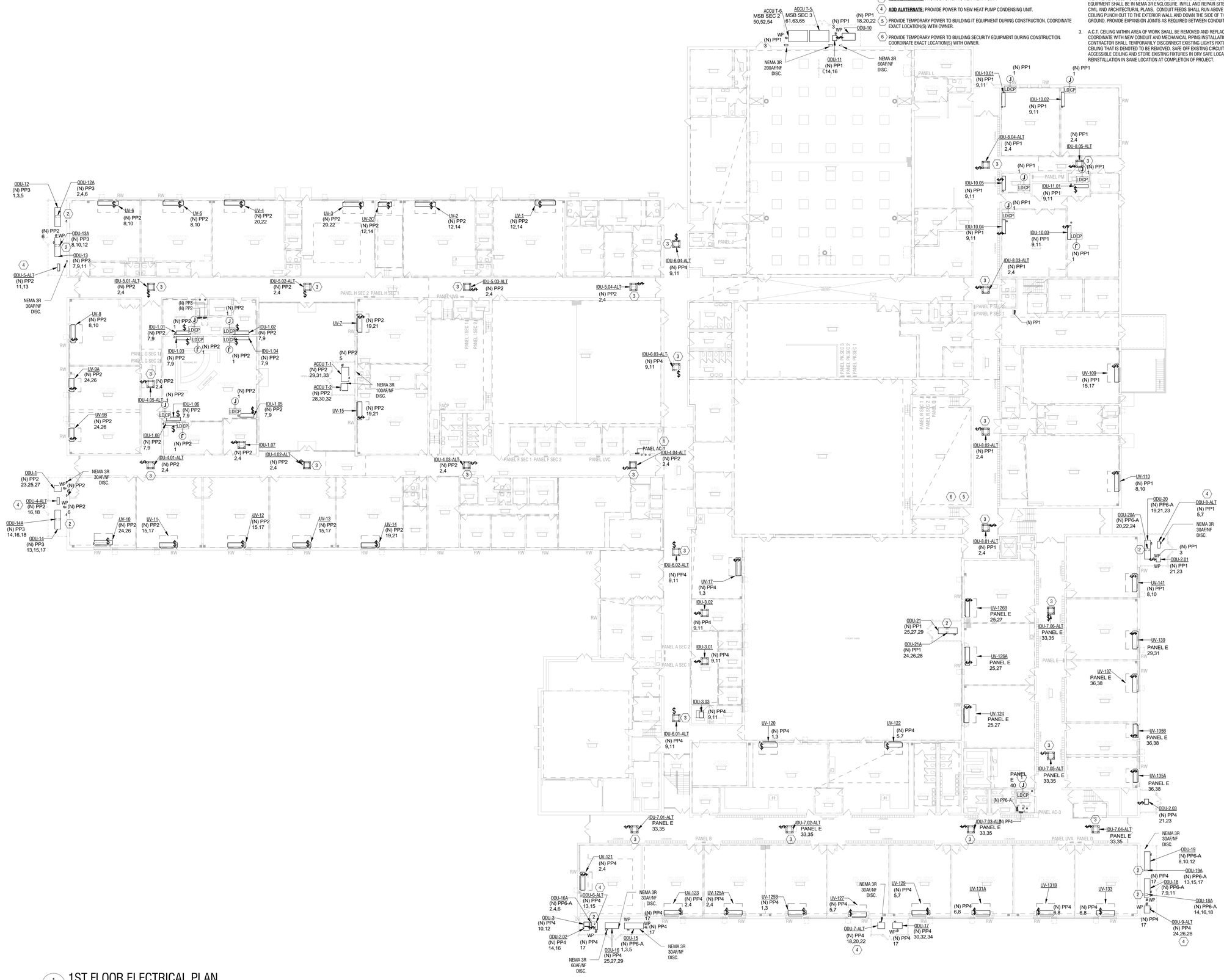
11/6/2024 12:45:29 PM

KEY NOTES:

1. REMOVE EXISTING SHELVING IN THIS LOCATION TO MAKE ROOM FOR NEW ELECTRICAL PANEL.
2. HEAT PUMP IS COMPRISED OF (2) PACKAGED UNITS. PROVIDE SEPRATE POWER FEEDS AND DISCONNECT SWITCHES FOR EACH UNIT. PROVIDE POWER FROM PANEL INDICATED, SEE E632 FOR WIRE AND CONDUIT SIZE/QUANTITY.
3. **ADD ALATERNATE:** PROVIDE POWER TO NEW HEAT PUMP.
4. **ADD ALATERNATE:** PROVIDE POWER TO NEW HEAT PUMP CONDENSING UNIT.
5. PROVIDE TEMPORARY POWER TO BUILDING IT EQUIPMENT DURING CONSTRUCTION. COORDINATE EXACT LOCATION(S) WITH OWNER.
6. PROVIDE TEMPORARY POWER TO BUILDING SECURITY EQUIPMENT DURING CONSTRUCTION. COORDINATE EXACT LOCATION(S) WITH OWNER.

GENERAL NOTES:

1. DISCONNECT SWITCH FOR UNIT VENTILATORS ARE PROVIDED BY MANUFACTURER. SEE COMMENTS ON E631.
2. ELECTRICAL CONTRACTOR TO TRENCH OUT CONDUIT ROUTE TO NEW MECHANICAL EQUIPMENT PAD, SEE DETAIL ON E500. RUN NEW CONDUIT AND WIRING AS LISTED ON DRAWING E631. ALL UNDERGROUND FEEDER RUNS SHALL BE ENCASED IN 'PVC' AND ALL-WEATHER EXPOSED RUNS SHALL BE ENCASED IN RIGID GALVANIZED STEEL 'RGS' AND EQUIPMENT SHALL BE IN NEMA 3R ENCLOSURE. INFILL AND REPAIR SITE AREA AS NOTED ON CIVIL AND ARCHITECTURAL PLANS. CONDUIT FEEDS SHALL RUN ABOVE ACCESSIBLE CEILING,PUNCH OUT TO THE EXTERIOR WALL AND DOWN THE SIDE OF THE BUILDING INTO GROUND. PROVIDE EXPANSION JOINTS AS REQUIRED BETWEEN CONDUIT TYPE TRANSITIONS.
3. A.C.T. CEILING WITHIN AREA OF WORK SHALL BE REMOVED AND REPLACED WITH NEW TO COORDINATE WITH NEW CONDUIT AND MECHANICAL PIPING INSTALLATION. ELECTRICAL CONTRACTOR SHALL TEMPORARILY DISCONNECT EXISTING LIGHTS FIXTURES IN A.C.T. CEILING THAT IS DENOTED TO BE REMOVED. SAFE OFF EXISTING CIRCUITING ABOVE ACCESSIBLE CEILING AND STORE EXISTING FIXTURES IN DRY SAFE LOCATION FOR REINSTALLATION IN SAME LOCATION AT COMPLETION OF PROJECT.



1 E101 — 1ST FLOOR ELECTRICAL PLAN
1/16" = 1'-0"

11/6/2024 12:45:30 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: FIRST FLOOR ELECTRICAL POWER PLAN

DRAWING NUMBER: E101

GENERAL NOTES:

1. PROVIDE IN USE COVER FOR EXTERIOR RECEPTACLES
2. PROVIDE LOW VOTLAGE CONTROL WIRING BETWEEN ALL IDU UNITS AND THE ASSOCIATED ODU, DAISY CHAINED FROM ODU. SEE MANUFACTURES SPECIFICAITON AND MECHANICAL DRAWINGS FOR MORE INFORMATION.

KEY NOTES:

(1) **ADD ALATERNATE:** PROVIDE POWER TO NEW HEAT PUMP.

1 / E102 2ND FLOOR ELECTRICAL PLAN

1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: SECOND FLOOR ELECTRICAL POWER PLAN

DRAWING NUMBER: E102

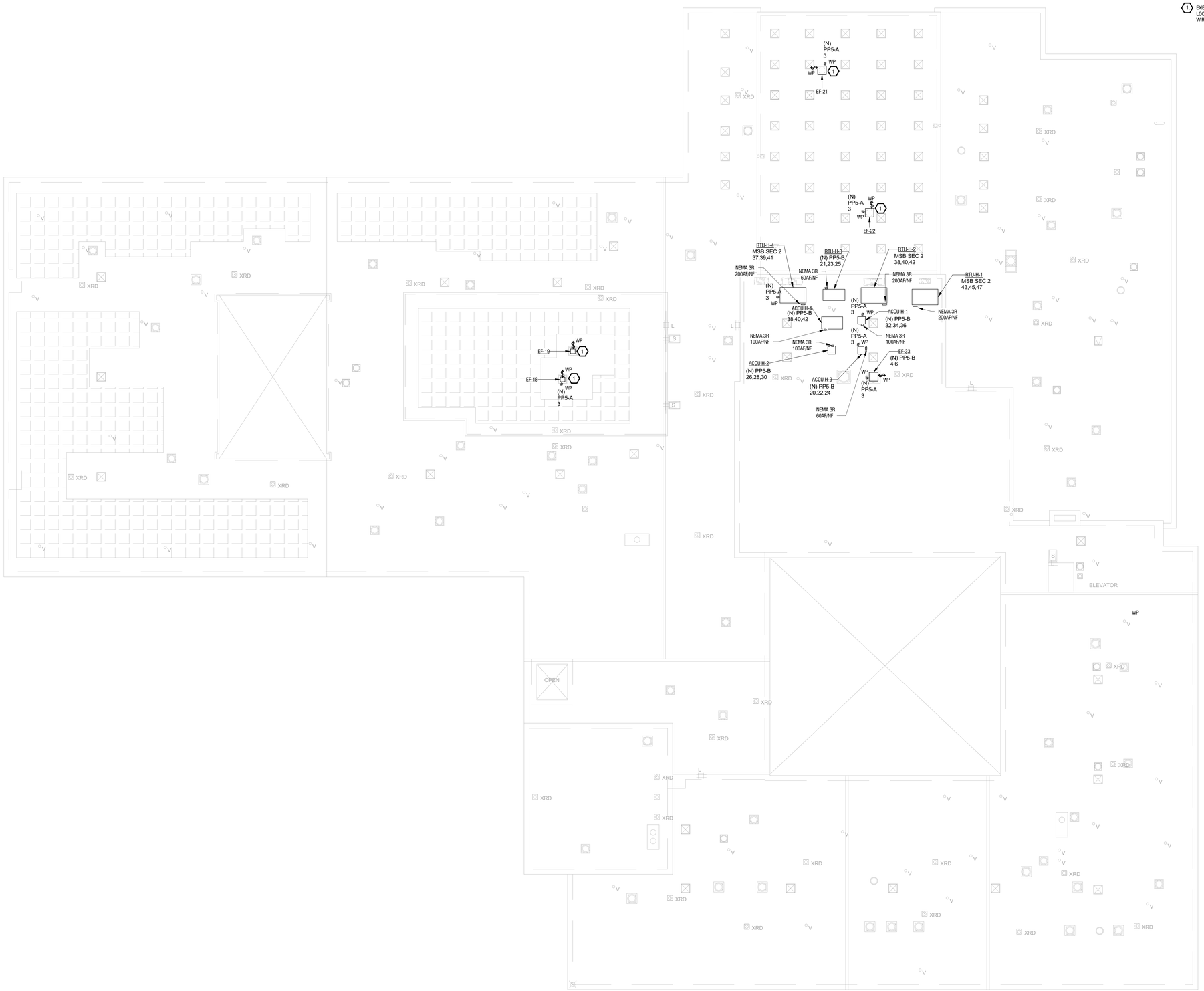
11/6/2024 12:45:31 PM

GENERAL NOTES:

1. PROVIDE IN USE COVER FOR EXTERIOR RECEPTACLES
2. PROVIDE LOW VOTLAGE CONTROL WIRING BETWEEN ALL IDU UNITS AND THE ASSOCIATED ODU. DAISY CHAINED FROM ODU. SEE MANUFACTURES SPECIFICAITON AND MECHANICAL DRAWINGS FOR MORE INFORMATION.

KEY NOTES:

1. EXISTING EXHAUST FAN CIRCUITING PREVIOUSLY SERVING THE EXHAUST FAN AT THIS LOCATION TO BE RECONNECTED TO NEW UNIT SHOWN. SPLICE AND EXTEND CONDUIT AND WIRING AS REQUIRED TO NEW LOCAITON.



1 E103 ROOF ELECTRICAL PLAN
1/16" = 1'-0"

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

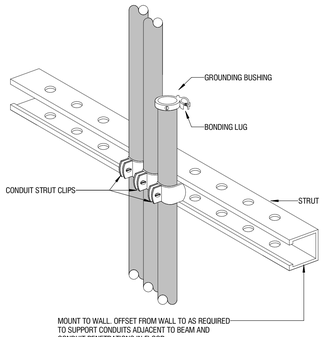
ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: ROOF ELECTRICAL POWER PLAN

DRAWING NUMBER: E103

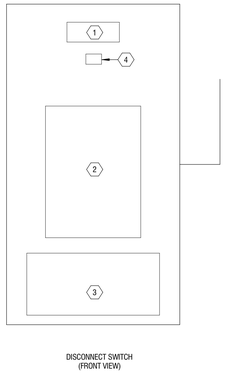
11/6/2024 12:45:31 PM



1 E500 CONDUIT ROUGH-IN SUPPORT
1/8" = 1'-0"

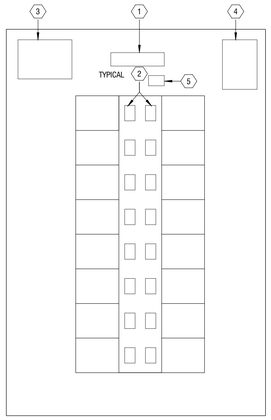
KEYED NOTES (#):

1. EQUIPMENT IDENTIFICATION LABEL.
2. WARNING LABEL UNGROUNDED CONDUCTORS (VOLTAGE LABEL).
3. DISCONNECT SWITCH WARNING LABEL
4. TESTING LABEL.



DISCONNECT SWITCH (FRONT VIEW)

2 E500 DISCONNECT TYP
1/8" = 1'-0"

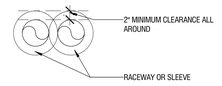


DISTRIBUTION PANELBOARD FRONT VIEW

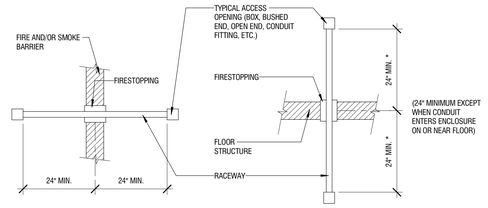
KEYED NOTES (#):

1.EQUIPMENT IDENTIFICATION LABEL.
2.PROTECTIVE DEVICE LOAD LABEL.
3.WARNING LABEL UNGROUNDED CONDUCTORS (VOLTAGE LABEL).
4.ARC FLASH WARNING LABEL.
5.TESTING LABEL.

3 E500 DISTRIBUTION PANELBOARD
1/8" = 1'-0"

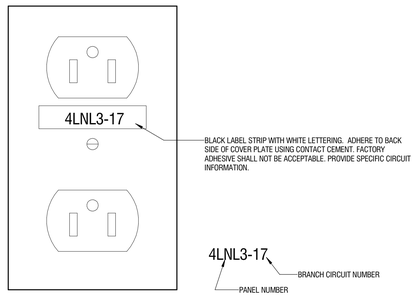


CLEARANCE REQUIREMENTS

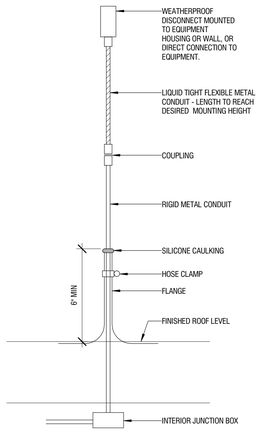


ELEVATION ELEVATION

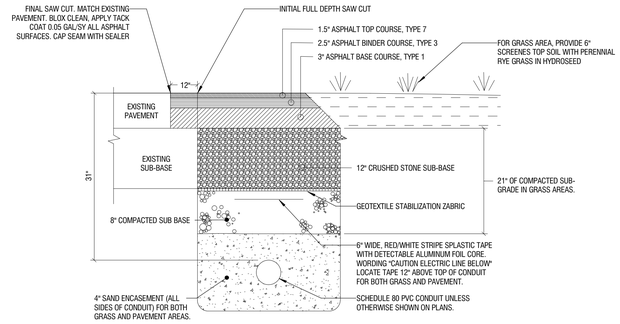
4 E500 PENETRATION THROUGH VERT. HORIZ. FIRE AND SMOKE BARRIER
1/8" = 1'-0"



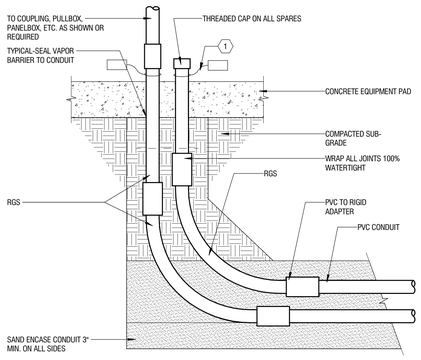
5 E500 TYPICAL NORMAL POWER RECEPTACLE IDENTIFICATION
1/8" = 1'-0"



6 E500 RACEWAY ROOF PENETRATION
1/8" = 1'-0"



7 E500 CONDUIT TRENCH DETAIL
1/32" = 1'-0"



KEYED NOTES:

(1) AT EACH CONDUIT STUB-UP, AFFIX ENGRAVED PLASTIC NAMEPLATE INDICATING CONDUIT NO. OR CIRCUIT IDENTIFICATION. ATTACH WITH NYLON CABLE TIE.

8 E500 TYPICAL CONDUIT STUB-UP
1/8" = 1'-0"

11/6/2024 12:45:33 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: ELECTRICAL DETAILS
DRAWING NUMBER: E500

DESIGNATION: MSB SEC 2

LOCATION:
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE:
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: FREESTANDING
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 65 K
MAIN TYPE: MLO
BUS RATING:
MCB TRIP: 3000 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
*** PROVIDE GFCI TYPE BREAKER**
**** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.**
***** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER**

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	**(N) PP1**	**200 A**	**3**	15746.9	0					3	125 A	PP-PN	2
3	--	-- --	--			15628.4	0			--	-- --	--	4
5	--	-- --	--					15243.4	0	--	-- --	--	6
7	PANEL R	125 A	3	0	0					3	125 A	PANEL G SEC 1	8
9	--	-- --	--			0	0			--	-- --	--	10
11	--	-- --	--					0	0	--	-- --	--	12
13	PANEL 2A	125 A	3	0	0					3	125 A	EX. OFFICE CHILLER	14
15	--	-- --	--			0	0			--	-- --	--	16
17	--	-- --	--					0	0	--	-- --	--	18
19	PANEL Q	175 A	3	0	0					3	175 A	PANEL A	20
21	--	-- --	--			0	0			--	-- --	--	22
23	--	-- --	--					0	0	--	-- --	--	24
25	EX. DISHWASHER BOOST	175 A	3	0	0					3	175 A	PANEL P	26
27	--	-- --	--			0	0			--	-- --	--	28
29	--	-- --	--					0	0	--	-- --	--	30
31	PANEL I	175 A	3	0	0					3	200 A	PANEL PA	32
33	--	-- --	--			0	0			--	-- --	--	34
35	--	-- --	--					0	0	--	-- --	--	36
37	**RTU-H-4**	**125 A**	**3**	6844.6	4591.9					**3**	**110 A**	**RTU-H-2**	38
39	--	-- --	--			6844.6	4591.9			--	-- --	--	40
41	--	-- --	--					6844.6	4591.9	--	-- --	--	42
43	**RTU-H-1**	**110 A**	**3**	4592	--					3	--	Space	44
45	--	-- --	--			4592	--			--	-- --	--	46
47	--	-- --	--					4592	--	--	-- --	--	48
49	Space	--	3	--	9222.3					**3**	**125 A**	**ACCU T-6**	50
51	--	-- --	--			--	9222.3			--	-- --	--	52
53	--	-- --	--					--	9222.3	--	-- --	--	54
55	PANEL PK	350 A	3	0	0					3	300 A	EX. ELEVATOR	56
57	--	-- --	--			0	0			--	-- --	--	58
59	--	-- --	--					0	0	--	-- --	--	60
61	PANEL 2D	150 A	3	0	0					3	150 A	PP-2F	62
63	--	-- --	--			0	0			--	-- --	--	64
65	--	-- --	--					0	0	--	-- --	--	66
67	PANEL F	175 A	3	0	0					3	150 A	EX. CHILLER	68
69	--	-- --	--			0	0			--	-- --	--	70
71	--	-- --	--					0	0	--	-- --	--	72
73	EX. COOKER/STEAMER	175 A	3	0	0					3	150 A	PANEL PP-2	74
75	--	-- --	--			0	0			--	-- --	--	76
77	--	-- --	--					0	0	--	-- --	--	78
79	EX. DISH HTR	125 A	3	0	20792.1					**3**	**200 A**	**(N) PP2**	80
81	--	-- --	--			0	19840.6			--	-- --	--	82
83	--	-- --	--					0	21354.6	--	-- --	--	84
	TOTAL CONNECTED PHASE LOADS:			61790 VA		60720 VA		61849 VA					
	TOTAL CONNECTED PHASE CURRENTS:			516 A		506 A		517 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	41984 VA	75.00%	31488 VA		
Other	140674 VA	75.00%	105506 VA	**CONNECTED LOAD:**	184358 VA
Receptacle	1440 VA	100.00%	1440 VA	**ESTIMATED DEMAND LOAD:**	138694 VA
Power	260 VA	100.00%	260 VA	**CONNECTED CURRENT:**	512 A
				ESTIMATED DEMAND CURRENT:	385 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	385 A

DESIGNATION: PANEL E

LOCATION:
FED FROM: MSB SEC 3
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC:
MAIN TYPE: MCB
BUS RATING: 225 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
*** PROVIDE GFCI TYPE BREAKER**
**** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.**
***** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER**

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	EX. LTG CORRIDOR 2B1	20 A	1	0	0					1	20 A	EX. LTG ROOM 137	2
3	EX. LTG ROOM 124	20 A	1			0	0			1	20 A	EX. LTG ROOM 137	4
5	EX. LTG ROOM 124	20 A	1					0	0	1	20 A	EX. LTG ROOM 135	6
7	EX. LTG JANITORS CLOSET/TEACHERS WKRM	20 A	1	0	0					1	20 A	EX. LTG ROOM 139	8
9	EX. LTG ROOM 126A	20 A	1			0	0			1	20 A	EX. LTG ROOM 139	10
11	EX. LTG ROOM 126A	20 A	1					0	0	1	20 A	EX. LTG ROOM 141	12
13	EX. LTG ROOM 126B	20 A	1	0	0					1	20 A	EX. LTG ROOM 141	14
15	EX. LTG ROOM 126B	20 A	1			0	0			1	20 A	EX. COPY MACHINE - TEACHERS	16
17	EX. RECEP. RM 126A & 126B	20 A	1					0	0	1	20 A	EX. RECEP. ROOM 139	18
19	EX. RECEP. ROOM 124	20 A	1	0	0					1	20 A	EX. RECEP. ROOM 141	20
21	EX. RECEP. TEACHERS WORK ROOM	20 A	1			0	0			1	20 A	EX. RECEP. ROOM 137	22
23	EX. ROOF FAN #35	20 A	1					0	0	1	20 A	EX. RECEP. COURTYARD	24
25	**UV-124, UV-126A, UV-126B**	**15 A**	**2**	1248	0					1	20 A	EX. RECEP. RM 135/HEAT	26
27	--	-- --	--			1248	0			1	20 A	EX. RECEP. RM 135/HEAT	28
29	**UV-139**	**15 A**	**2**					416	0	3	20 A	EX. ROOF FAN #36	30
31	--	-- --	--	416	0					--	-- --	--	32
33	**IDU'S-7.01 - 7.06**	**15 A**	**2**			213	0			--	-- --	--	34
35	--	-- --	--					213	1248	**2**	**15 A**	**UV-135A, UV-135B, UV-137**	36
37	EX. RECEP. CORRIDOR	20 A	1	0	1248					--	-- --	--	38
39	Spare	20 A	2			0	20			1	20 A	Power	40
41	--	-- --	--					0					42
	TOTAL CONNECTED PHASE LOADS:			2912 VA		1481 VA		1877 VA					
	TOTAL CONNECTED PHASE CURRENTS:			25 A		12 A		16 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	6250 VA	75.00%	4688 VA		
Power	20 VA	100.00%	20 VA	**CONNECTED LOAD:**	6270 VA
				ESTIMATED DEMAND LOAD:	4708 VA
				CONNECTED CURRENT:	17 A
				ESTIMATED DEMAND CURRENT:	13 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	13 A

DESIGNATION: MSB SEC 3

LOCATION:
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE:
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: FREESTANDING
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 65 K
MAIN TYPE: MLO
BUS RATING:
MCB TRIP: 3000 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
*** PROVIDE GFCI TYPE BREAKER**
**** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.**
***** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER**

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	**(N) PP3**	**20 A**	**3**	24279	--					3	--	Space	2
3	--	-- --	--			24279	--			--	-- --	--	4
5	--	-- --	--					24279	--	--	-- --	--	6
7	Space	--	3	--	--					3	--	Space	8
9	--	-- --	--			--	--			--	-- --	--	10
11	--	-- --	--					--	--	--	-- --	--	12
13	PANEL UVB	40 A	3	0	0					3	100 A	PANEL UVA	14
15	--	-- --	--			0	0			--	-- --	--	16
17	--	-- --	--					0	0	--	-- --	--	18
19	PANEL 2B	50 A	3	0	0					3	100 A	PANEL C	20
21	--	-- --	--			0	0			--	-- --	--	22
23	--	-- --	--					0	0	--	-- --	--	24
25	PANEL UVC	200 A	3	0	0					3	50 A	PP-2C	26
27	--	-- --	--			0	0			--	-- --	--	28
29	--	-- --	--					0	0	--	-- --	--	30
31	PANEL AC-1	175 A	3	0	0					3	175 A	PP-AC2	32
33	--	-- --	--			0	0			--	-- --	--	34
35	--	-- --	--					0	0	--	-- --	--	36
37	PANEL AC-3	175 A	3	0	0					3	175 A	PANEL AC-4	38
39	--	-- --	--			0	0			--	-- --	--	40
41	--	-- --	--					0	0	--	-- --	--	42
43	**(N) PP4**	**20 A**	**3**	**22650.2**	**32372**					**3**	**20 A**	**(N) PP6-A**	44
45	--	-- --	--			**23704.2**	**32372**			--	-- --	--	46
47	--	-- --	--					**21380.2**	**32372**	--	-- --	--	48
49	**(N) PP5**	**20 A**	**3**	**5340**	--					3	--	Space	50
51	--	-- --	--			**4876**	--			--	-- --	--	52
53	--	-- --	--					**5824**	--	--	-- --	--	54
55	PANEL E	100 A	3	2912	0					3	70 A	FUT	56
57	--	-- --	--			1481	0			--	-- --	--	58
59	--	-- --	--					1877	0	--	-- --	--	60
61	**ACCU T-5**	**125 A**	**3**	9222.3	0					3	70 A	EX. KITCHEN OVEN	62
63	--	-- --	--			9222.3	0			--	-- --	--	64
65	--	-- --	--					9222.3	0	--	-- --	--	66
67	PANEL B	90 A	3	0	0					3	90 A	PANEL D	68
69	--	-- --	--			0	0			--	-- --	--	70
71	--	-- --	--					0	0	--	-- --	--	72
73	PANEL L	90 A	3	0	0					3	90 A	PANEL J	74
75	--	-- --	--			0	0			--	-- --	--	76
77	--	-- --	--					0	0	--	-- --	--	78
79	PANEL 2E	90 A	3	0	0					3	90 A	PANEL PM	80
81	--	-- --	--			0	0			--	-- --	--	82
83	--	-- --	--					0	0	--	-- --	--	84
85	Space	--	3	--	0					3	100 A	PANEL H SEC 1	86
87	--	-- --	--			--	0			--	-- --	--	88
89	--	-- --	--					--	0	--	-- --	--	90
	TOTAL CONNECTED PHASE LOADS:			96775 VA		95934 VA		94954 VA					
	TOTAL CONNECTED PHASE CURRENTS:			808 A		801 A		791 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	228717 VA	75.00%	171538 VA		
Other	56707 VA	75.00%	42531 VA	**CONNECTED LOAD:**	287664 VA
Receptacle	2160 VA	100.00%	2160 VA	**ESTIMATED DEMAND LOAD:**	216308 VA
Power	80 VA	100.00%	80 VA	**CONNECTED CURRENT:**	798 A
				ESTIMATED DEMAND CURRENT:	600 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	600 A

TOTAL BUILDING ELECTRICAL LOADS:

CENTRAL HUDSON METERREADING PEAK LOAD	PRE-CONSTRUCTION:	338KVA
NEW EQUIPMENT LOAD:		579KVA
POTENTIAL LOAD SHED:		(116KVA)
TOTAL CONNECTED LOAD:		**801KVA**
TOTAL DEMAND LOAD:		**656.25KVA**

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

ELECTRICAL PANEL SCHEDULES

DRAWING NUMBER:

E600

11/6/2024 12:45:34 PM

DESIGNATION: (N) PP1

LOCATION:
FED FROM: MSB SEC 2
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MCB
BUS RATING: 200 A
MCB TRIP: 200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	LEAK DETECTOR AND CONDENSATE PUMP	20 A	1	120	177.5					2	20 A	IDU HALLWAY CASSETS	2
3	Receptacle	20 A	1			540	177.5			--	-- --	--	4
5	ODU-8	35 A	2					2412.5					6
7	--	-- --	--	2412.5	832					2	20 A	UV-110, UV-141	8
9	IDU 10.01- IDU 11.01	15 A	2			210	832			--	-- --	--	10
11	--	-- --	--					210					12
13					1248					2	15 A	ODU-11	14
15	UV-109	15 A	2			416	1248			--	-- --	--	16
17	--	-- --	--					416	2863.9	3	45 A	ODU-10	18
19					2863.9					--	-- --	--	20
21	ODU-2.01	15 A	2			1248	2863.9			--	-- --	--	22
23	--	-- --	--					1248	3504	3	40 A	ODU-21-1	24
25	ODU-21-2	50 A	3	4589	3504					--	-- --	--	26
27	--	-- --	--			4589	3504			--	-- --	--	28
29	--	-- --	--					4589	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			15747 VA		15628 VA		15243 VA					
	TOTAL CONNECTED PHASE CURRENTS:			132 A		131 A		127 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	27130 VA	75.00%	20348 VA		
Other	18829 VA	75.00%	14122 VA	CONNECTED LOAD:	46619 VA
Receptacle	540 VA	100.00%	540 VA	ESTIMATED DEMAND LOAD:	35129 VA
Power	120 VA	100.00%	120 VA	CONNECTED CURRENT:	129 A
				ESTIMATED DEMAND CURRENT:	98 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	98 A

DESIGNATION: (N) PP2

LOCATION: JANITOR'S CLOSET
FED FROM: MSB SEC 2
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MCB
BUS RATING: 200 A
MCB TRIP: 200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	LEAK DETECTOR AND CONDENSATE PUMP	20 A	1	140	355					2	15 A	IDU'S- WEST SIDE	2
3							355			--	-- --	--	4
5	ROOF CONVENIENCE RECEP.	20 A	1					180	720	1	20 A	OUTDOOR RECEPTACLE	6
7	IDU 1.01 - IDU 1.08	15 A	2	175	1248					2	15 A	UV-6, UV-8, UV-5	8
9	--	-- --	--			175	1248			--	-- --	--	10
11	ODU-5	35 A	2					1976	1248	2	15 A	UV-1, UV-2, UV-2C	12
13	--	-- --	--	1976	1248					--	-- --	--	14
15	UV-11, UV-12, UV-13	15 A	2			1248	2412.5			2	35 A	ODU-4	16
17	--	-- --	--					1248	2412.5	--	-- --	--	18
19	UV-7, UV-14, UV-15	15 A	2	1248	832					2	15 A	UV-3, UV-4	20
21	--	-- --	--			1248	832			--	-- --	--	22
23	ODU-1	30 A	3					2628.1	1248	2	15 A	UV-9A, UV-9B, UV-10	24
25	--	-- --	--	2628.1	1248					--	-- --	--	26
27	--	-- --	--			2628.1	4592			3	80 A	ACCU T-2	28
29	ACCU T-1	80 A	3					5102	4592	--	-- --	--	30
31	--	-- --	--	5102	4592					--	-- --	--	32
33	--	-- --	--			5102	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			20792 VA		19841 VA		21355 VA					
	TOTAL CONNECTED PHASE CURRENTS:			174 A		165 A		179 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	14854 VA	75.00%	11141 VA		
Other	46093 VA	75.00%	34570 VA	CONNECTED LOAD:	61987 VA
Receptacle	900 VA	100.00%	900 VA	ESTIMATED DEMAND LOAD:	46750 VA
Power	140 VA	100.00%	140 VA	CONNECTED CURRENT:	172 A
				ESTIMATED DEMAND CURRENT:	130 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	130 A

DESIGNATION: (N) PP3

LOCATION: JANITOR'S CLOSET
FED FROM: MSB SEC 3
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MCB
BUS RATING: 200 A
MCB TRIP: 200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	ODU-12-2	50 A	3	4589	3504					3	40 A	ODU-12-1	2
3	--	-- --	--			4589	3504			--	-- --	--	4
5	--	-- --	--					4589	3504	--	-- --	--	6
7	ODU-13-2	50 A	3	4589	3504					3	40 A	ODU-13-1	8
9	--	-- --	--			4589	3504			--	-- --	--	10
11	--	-- --	--					4589	3504	--	-- --	--	12
13	ODU-14-2	50 A	3	4589	3504					3	40 A	ODU-14-1	14
15	--	-- --	--			4589	3504			--	-- --	--	16
17	--	-- --	--					4589	3504	--	-- --	--	18
19	Spare	20 A	1	0	0					1	20 A	Spare	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			24279 VA		24279 VA		24279 VA					
	TOTAL CONNECTED PHASE CURRENTS:			202 A		202 A		202 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	72837 VA	75.00%	54628 VA		
				CONNECTED LOAD:	72837 VA
				ESTIMATED DEMAND LOAD:	54628 VA
				CONNECTED CURRENT:	202 A
				ESTIMATED DEMAND CURRENT:	152 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	152 A

DESIGNATION: (N) PP4

LOCATION: JANITOR A
FED FROM: MSB SEC 3
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MCB
BUS RATING: 200 A
MCB TRIP: 200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	UV-17, UV-120, UV-125B	15 A	2	1248	1248					2	15 A	UV-121, UV-123, UV-125A	2
3	--	-- --	--			1248	1248			--	-- --	--	4
5	UV-127, UV-129, UV-122	15 A	2					1248	1248	2	45 A	UV-131A, UV-131B, UV-133	6
7	--	-- --	--	1248	1248					--	-- --	--	8
9	IDU-6.02. IDU-6.01, IDU-3.01 AND IDU-3.02	20 A	2			326	1976			2	35 A	ODU-3	10
11	--	-- --	--					326	1976	--	-- --	--	12
13	ODU-6	35 A	2	1976	1248					2	15 A	ODU-2.02	14
15	--	-- --	--			1976	1248			--	-- --	--	16
17	ROOF CONVEIENCE RECEP.	20 A	1					900	2628.1	3	30 A	ODU-7	18
19					2628.1					--	-- --	--	20
21	ODU-2.03	15 A	2			1248	2628.1			--	-- --	--	22
23	--	-- --	--					1248	2628.1	3	30 A	ODU-9	24
25	ODU-16	60 A	3	4589	2628.1					--	-- --	--	26
27	--	-- --	--			4589	2628.1			--	-- --	--	28
29	--	-- --	--					4589	4589	3	20 A	ODU-17	30
31	Spare	20 A	1	0	4589					--	-- --	--	32
33	Spare	20 A	1			0	4589			--	-- --	--	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			22650 VA		23704 VA		21380 VA					
	TOTAL CONNECTED PHASE CURRENTS:			190 A		199 A		178 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	37944 VA	75.00%	28458 VA		
Other	28890 VA	75.00%	21668 VA	CONNECTED LOAD:	67734 VA
Receptacle	900 VA	100.00%	900 VA	ESTIMATED DEMAND LOAD:	51026 VA
				CONNECTED CURRENT:	188 A
				ESTIMATED DEMAND CURRENT:	142 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	142 A

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

ELECTRICAL PANEL SCHEDULES

DRAWING NUMBER:

E601

11/6/2024 12:46:36 PM

DESIGNATION: (N) PP5-A

LOCATION:
FED FROM: MSB SEC 3
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MCB
BUS RATING: 400 A
MCB TRIP: 400 A
MODIFICATIONS: PROVIDED WITH FEED-THRU LUGS

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	LEAK DETECTOR AND CONDENSATE PUMP	20 A	1	60	75					2	15 A	IDU-2.01-IDU-2.03	2
3	ROOF CONVEIENCE RECEP.	20 A	1			1260	75			--	-- --	--	4
5									1664	2	15 A	UV-220, UV-222, UV-224, UV-229	6
7	HVAC	20 A	2	213	1664					--	-- --	--	8
9	--	-- --	--			213	1248			2	15 A	UV-233, UV-235, UV-227	10
11	UV-221, UV-223, UV-225	15 A	2					1248	1248	--	-- --	--	12
13	--	-- --	--	1248	1248					2	15 A	UV-226, UV-228, UV-239	14
15	UV-227A, UV-231	15 A	2			832	1248			--	-- --	--	16
17	--	-- --	--					832	832	2	15 A	UV-237A, UV-237B	18
19	Spare	20 A	1	0	832					--	-- --	--	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			5340 VA		4876 VA		5824 VA					
	TOTAL CONNECTED PHASE CURRENTS:			45 A		41 A		49 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	14570 VA	75.00%	10928 VA		
Other	150 VA	75.00%	113 VA	CONNECTED LOAD:	16040 VA
Receptacle	1260 VA	100.00%	1260 VA	ESTIMATED DEMAND LOAD:	12360 VA
Power	60 VA	100.00%	60 VA	CONNECTED CURRENT:	45 A
				ESTIMATED DEMAND CURRENT:	34 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	34 A

DESIGNATION: (N) PP6-A

LOCATION: JANITOR A
FED FROM: MSB SEC 3
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MCB
BUS RATING: 400 A
MCB TRIP: 400 A
MODIFICATIONS: PROVIDED WITH FEED-THRU LUGS

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	ODU-16	50 A	3	4589	3504					3	40 A	ODU-16A	2
3	--	-- --	--			4589	3504			--	-- --	--	4
5	--	-- --	--					4589	3504	--	-- --	--	6
7	ODU-18	50 A	3	4589	4589					3	50 A	ODU-19	8
9	--	-- --	--			4589	4589			--	-- --	--	10
11	--	-- --	--					4589	4589	--	-- --	--	12
13	ODU-19A	40 A	3	3504	3504					3	40 A	ODU-18A	14
15	--	-- --	--			3504	3504			--	-- --	--	16
17	--	-- --	--					3504	3504	--	-- --	--	18
19	ODU-20	50 A	3	4589	3504					3	40 A	ODU-20A	20
21	--	-- --	--			4589	3504			--	-- --	--	22
23	--	-- --	--					4589	3504	--	-- --	--	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			32372 VA		32372 VA		32372 VA					
	TOTAL CONNECTED PHASE CURRENTS:			270 A		270 A		270 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	97116 VA	75.00%	72837 VA		
				CONNECTED LOAD:	97116 VA
				ESTIMATED DEMAND LOAD:	72837 VA
				CONNECTED CURRENT:	270 A
				ESTIMATED DEMAND CURRENT:	202 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	202 A

DESIGNATION: (N) PP5-B

LOCATION:
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MCB
BUS RATING: 400 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1													2
3							915			2	15 A	EF-33	4
5									915	--	-- --	--	6
7					1233.3					3	15 A	T-5	8
9	T-6	15 A	3			1233.3	1233.3			--	-- --	--	10
11	--	-- --	--					1233.3	1233.3	--	-- --	--	12
13	--	-- --	--	1233.3	1400					3	25 A	T-2	14
15	T-1	35 A	3			2500	1400			--	-- --	--	16
17	--	-- --	--					2500	1400	--	-- --	--	18
19	--	-- --	--	2500	3900					3	60 A	ACCU H-3	20
21	RTU-H-3	50 A	3			3908.4	3900			--	-- --	--	22
23	--	-- --	--					3908.4	3900	--	-- --	--	24
25	--	-- --	--	3908.4	4592					3	80 A	ACCU H-2	26
27	Spare	20 A	1			0	4592			--	-- --	--	28
29	Spare	20 A	1					0	4592	--	-- --	--	30
31	Spare	20 A	1	0	4592					3	80 A	ACCU-H1	32
33	Spare	20 A	1			0	4592			--	-- --	--	34
35	Spare	20 A	1					0	4592	--	-- --	--	36
37	Spare	20 A	1	0	6844.3					3	90 A	ACCU H-4	38
39	Spare	20 A	1			0	6844.3			--	-- --	--	40
41	Spare	20 A	1					0	6844.3	--	-- --	--	42
	TOTAL CONNECTED PHASE LOADS:			30203 VA		31118 VA		31118 VA					
	TOTAL CONNECTED PHASE CURRENTS:			252 A		260 A		260 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
Other	92440 VA	75.00%	69330 VA		
				CONNECTED LOAD:	92440 VA
				ESTIMATED DEMAND LOAD:	69330 VA
				CONNECTED CURRENT:	257 A
				ESTIMATED DEMAND CURRENT:	192 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	192 A

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: ELECTRICAL PANEL SCHEDULES
DRAWING NUMBER: E602

11/6/2024 12:45:37 PM

EQUIPMENT SCHEDULE - UNIT VENTILATORS - ELECTRICAL POWER

EQUIPMENT TAG	Manufacturer	Model	Voltage	Frequency	Phase	NUMBER OF POLE	Minimum Circuit Current	Maximum Overcurrent Protection	KVA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
UV-1	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	12,14	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-2	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	12,14	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-2C	DAIKIN APPLIED	UAVS9V07	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	12,14	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-3	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	20,22	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-4	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	20,22	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-5	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	8,10	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-6	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	8,10	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-7	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	19,21	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-8	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	8,10	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-9A	DAIKIN APPLIED	UAVS9V07	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	24,26	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-9B	DAIKIN APPLIED	UAVS9V07	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	24,26	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-10	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	24,26	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-11	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	15,17	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-12	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	15,17	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-13	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	15,17	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-14	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	19,21	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-15	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP2	19,21	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-17	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	1,3	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-109	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP1	15,17	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-110	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP1	8,10	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-120	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	1,3	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-121	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-122	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	5,7	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-123	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-124	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	PANEL E	25,27	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-125A	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-125B	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	1,3	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-126A	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	PANEL E	25,27	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-126B	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	PANEL E	25,27	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-127	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	5,7	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-129	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	5,7	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-131A	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	6,8	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-131B	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	6,8	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-133	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP4	6,8	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-135A	DAIKIN APPLIED	UAVS9V07	208 V	60 Hz	1	2	4 A	15 A	832	PANEL E	36,38	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-135B	DAIKIN APPLIED	UAVS9V07	208 V	60 Hz	1	2	4 A	15 A	832	PANEL E	36,38	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-137	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	PANEL E	36,38	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-139	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	PANEL E	29,31	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-141	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP1	8,10	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-220	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	6,8	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-221	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	11,13	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-222	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	6,8	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-223	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	11,13	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-224	DAIKIN APPLIED	UAVS9V07	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	6,8	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-225	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	11,13	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-226	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	14,16	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-227	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	10,12	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-227A	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	15,17	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-228	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	14,16	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-229	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	6,8	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-231	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	15,17	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-233	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	10,12	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-235	DAIKIN APPLIED	UAVS9V15	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	10,12	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-237A	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	18,20	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-237B	DAIKIN APPLIED	UAVS9V07	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	18,20	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
UV-239	DAIKIN APPLIED	UAVS9V13	208 V	60 Hz	1	2	4 A	15 A	832	(N) PP5-A	14,16	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.

EQUIPMENT SCHEDULE - AIR COOLED VRV HEAT PUMP CONDENSING UNIT - ELECTRICAL POWER

EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	SUPPLY VOLTAGE	RLA	MCA	MOP	NUMBER OF POLE	VA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
ODU-1	DAIKIN	RXYQ72AATJA	208V/3PH	11.1	27.3	30	3	7884.24	(N) PP2	23,25,27	30AF/NF	(1 SET) 4#10+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-2.01	DAIKIN	RXL12QMVJU9	208V/1PH	12.0	13.0	15	2	2500	(N) PP1	21,23	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-2.02	DAIKIN	RXL12QMVJU9	208V/1PH	12.0	13.0	15	2	2500	(N) PP4	14,16	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-2.03	DAIKIN	RXL12QMVJU9	208V/1PH	12.0	13.0	15	2	2500	(N) PP4	21,23	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-3	DAIKIN	RXTQ48TBVJUA	208V/1PH	19	29.1	35	2	3900	(N) PP4	10,12	60AF/NF	(1 SET) 3#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-4-ALT	DAIKIN	RXTQ60TBVJUA	208V/1PH	23.2	29.1	35	2	4800	(N) PP2	16,18	60AF/NF	(1 SET) 3#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-5-ALT	DAIKIN	RXTQ48TBVJUA	208V/1PH	19	29.1	35	2	3900	(N) PP2	11,13	60AF/NF	(1 SET) 3#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-6-ALT	DAIKIN	RXTQ48TBVJUA	208V/1PH	19	29.1	35	2	3900	(N) PP4	13,15	60AF/NF	(1 SET) 3#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-7-ALT	DAIKIN	RXYQ72AATJA	208V/3PH	11.1	27.3	30	3	7884.24	(N) PP4	18,20,22	30AF/NF	(1 SET) 4#10+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-8-ALT	DAIKIN	RXTQ60TBVJUA	208V/1PH	23.2	29.1	35	2	4800	(N) PP1	5,7	60AF/NF	(1 SET) 3#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-9-ALT	DAIKIN	RXYQ72AATJA	208V/3PH	11.1	27.3	30	3	7884.24	(N) PP4	24,26,28	30AF/NF	(1 SET) 4#10+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-10	DAIKIN	RXYQ96AATJA	208V/3PH	23.8	36.3	45	3	8591.8	(N) PP1	18,20,22	60AF/NF	(1 SET) 4#6+1#10G IN 1"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-11	DAIKIN	RK12BXVJU	208V/1PH	2.9	4	15	2	2496	(N) PP1	14,16	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-12	DAIKIN	RXYQ264AATJA	208V/3PH	25.8	47.8	50	3	13766	(N) PP3	1,3,5	60AF/NF	(1 SETS) 4#6+1#10G IN 1"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-12A	DAIKIN	RXYQ264AATJA	208V/3PH	21.3	36.5	40	3	10512	(N) PP3	2,4,6	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-13	DAIKIN	RXYQ264AATJA	208V/3PH	25.8	47.8	50	3	13766	(N) PP3	7,9,11	60AF/NF	(1 SETS) 4#6+1#10G IN 1"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-13A	DAIKIN	RXYQ264AATJA	208V/3PH	21.3	36.5	40	3	10512	(N) PP3	8,10,12	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-14	DAIKIN	RXYQ264AATJA	208V/3PH	25.8	47.8	50	3	13766	(N) PP3	13,15,17	60AF/NF	(1 SETS) 4#6+1#10G IN 1"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-14A	DAIKIN	RXYQ264AATJA	208V/3PH	21.3	36.5	40	3	10512	(N) PP3	14,16,18	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-15	DAIKIN	RXYQ264AATJA	208V/3PH	25.8	47.8	50	3	13766	(N) PP6-A	1,3,5	60AF/NF	(1 SETS) 4#6+1#10G IN 1"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-16	DAIKIN	RXYQ192AATJA	208V/3PH	16.6 + 16.6 A	59.8	60	3	21615	(N) PP4	25,27,29	60A/NF	(1 SETS) 4#4+1#10G IN 1-1/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-16A	DAIKIN	RXYQ264AATJA	208V/3PH	21.3	36.5	40	3	10512	(N) PP6-A	2,4,6	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-17	DAIKIN	RXYQ168AATJA	208V/3PH	12.5 + 20.0 A	54.9	60	3	15811.2	(N) PP4	30,32,34	60AF/NF		HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-18	DAIKIN	RXYQ264AATJA	208V/3PH	25.8	47.8	50	3	13766	(N) PP6-A	7,9,11	60AF/NF	(1 SETS) 4#6+1#10G IN 1"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-18A	DAIKIN	RXYQ264AATJA	208V/3PH	21.3	36.5	40	3	10512	(N) PP6-A	14,16,18	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-19	DAIKIN	RXYQ264AATJA	208V/3PH	25.8	47.8	50	3	13766	(N) PP6-A	8,10,12	60AF/NF	(1 SETS) 4#6+1#10G IN 1"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-19A	DAIKIN	RXYQ264AATJA	208V/3PH	21.3	36.5	40	3	10512	(N) PP6-A	13,15,17	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-20	DAIKIN	RXYQ264AATJA	208V/3PH	25.8	47.8	50	3	13766	(N) PP6-A	19,21,23	60AF/NF	(1 SET) 4#6+1#10G IN 1"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-20A	DAIKIN	RXYQ264AATJA	208V/3PH	21.3	36.5	40	3	10512	(N) PP6-A	20,22,24	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-21	DAIKIN	RXYQ264AATJA	208V/3PH	25.8	47.8	50	3	13766	(N) PP1	25,27,29	60AF/NF	(1 SET) 4#6+1#10G IN 1"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-21A	DAIKIN	RXYQ264AATJA	208V/3PH	21.3	36.5	40	3	10512	(N) PP1	24,26,28	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.

EQUIPMENT SCHEDULE - AIR COOLED CONDENSING UNITS - ELECTRICAL POWER

EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	SUPPLY VOLTAGE	MCA	MOP	NUMBER OF POLE	KVA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
ACCU H-1	DAIKIN	DX14XA1203A	208V/3PH	47.7	80	3	13776	(N) PP5-B	32,34,36	100AF/NF	(1 SET) 4#2+1#6G IN 1-1/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ACCU H-2	DAIKIN	DX14XA1203A	208V/3PH	47.7	80	3	13776	(N) PP5-B	26,28,30	100AF/NF	(1 SET) 4#2+1#8G IN 1-1/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ACCU H-3	DAIKIN	DX14XA0903A	208V/3PH	40.6	60	3	11700	(N) PP5-B	20,22,24	60AF/NF	(1 SET) 4#4 +1#10G IN 1-1/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ACCU H-4	DAIKIN	RCS015D	208V/3PH	71.1	90	3	20533	(N) PP5-B	38,40,42	100AF/NF	(1 SET) 4#2+1#8G IN 1-1/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ACCU T-1	DAIKIN	RCS10H150C	208V/3PH	53	80	3	15306	(N) PP2	29,31,33	100AF/NF	(1 SET) 4#3+1#8G IN 1-1/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ACCU T-2	DAIKIN	DX14XA1203A	208V/3PH	47.7	80	3	13776	(N) PP2	28,30,32	100AF/NF	(1 SET) 4#2+1#8G IN 1-1/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ACCU T-5	DAIKIN	RCS020D	208V/3PH	95.8	125	3	27667	MSB SEC 3	61,63,65	200AF/NF	(1 SET) 4#1+1#6G IN 1-1/2"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ACCU T-6	DAIKIN	RCS020D	208V/3PH	95.8	125	3	27667	MSB SEC 2	50,52,54	200AF/NF	(1 SET) 4#1+1#6G IN 1-1/2"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.

EQUIPMENT SCHEDULE - ROOF TOP UNITS - ELECTRICAL POWER

EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	SUPPLY VOLTAGE	SUPPLY FAN MOTOR SIZE	FLA	MCA	MOP	NUMBER OF POLE	VA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
RTU-H-1	DAIKIN	DPSC07B	208V/3PH	R32	60.3	75.4	110	3	13776	MSB SEC 2	43,45,47	100AF/NF	(1 SET) 4#2+1#6G IN 1-1/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
RTU-H-2	DAIKIN	DPSC07B	208V/3PH	R32	60.3	75.4	110	3	13775.76	MSB SEC 2	38,40,42	100AF/NF	(1 SET) 4#2+1#6G IN 1-1/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
RTU-H-3	DAIKIN	DPSC03B	208V/3PH	R32	28.4	35.5	50	3	11725.28	(N) PP5-B	21,23,25	60AF/NF	(1 SET) 4#6+1#10G IN 1"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
RTU-H-4	DAIKIN	DPSC10B	208V/3PH	R32	59	73.7	125	3	20533.68	MSB SEC 2	37,39,41	200AF/NF	(1 SET) 4#1+1#6G IN 1-1/2"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.

11/6/2024 12:45:40 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

ELECTRICAL SYSTEM SCHEDULES

DRAWING NUMBER:

E631

EQUIPMENT SCHEDULE - VRV HEAT PUMP INDOOR UNIT - ELECTRICAL POWER

EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	TYPE	ELECTRICAL										COMMENTS
				SUPPLY VOLTAGE	MCA	MOP	NUMBER OF POLE	VA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	
IDU-1.01	DAIKIN	FXAQ07PVJU	WALL MOUNTED	208V/1PH	0.3	15	2	50	(N) PP2	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-1.02	DAIKIN	FXAQ07PVJU	WALL MOUNTED	208V/1PH	0.3	15	2	50	(N) PP2	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-1.03	DAIKIN	FXAQ12PVJU	WALL MOUNTED	208V/1PH	0.4	15	2	50	(N) PP2	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-1.04	DAIKIN	FXAQ12PVJU	WALL MOUNTED	208V/1PH	0.4	15	2	50	(N) PP2	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-1.05	DAIKIN	FXAQ12PVJU	WALL MOUNTED	208V/1PH	0.4	15	2	50	(N) PP2	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-1.06	DAIKIN	FXAQ12PVJU	WALL MOUNTED	208V/1PH	0.4	15	2	50	(N) PP2	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-1.07	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP2	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-1.08	DAIKIN	FXAQ07PVJU	WALL MOUNTED	208V/1PH	0.3	15	2	50	(N) PP2	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-2.01	DAIKIN	FTX12NMVJU	WALL MOUNTED	208V/1PH	0.4	15	2	50	(N) PP5-A	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-2.02	DAIKIN	FTX12NMVJU	WALL MOUNTED	208V/1PH	0.4	15	2	50	(N) PP5-A	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-2.03	DAIKIN	FTX12NMVJU	WALL MOUNTED	208V/1PH	0.4	15	2	50	(N) PP5-A	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-3.01	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP4	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-3.02	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP4	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-3.03	DAIKIN	FXSQ18TAVJU	DUCTED CONCEALED	208V/1PH	1.6	15	2	226	(N) PP4	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-4.01-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP2	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-4.02-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP2	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-4.03-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP2	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-4.04-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP2	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-4.05-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP2	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-5.01-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP2	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-5.02-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP2	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-5.03-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP2	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-5.04-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP2	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-6.01-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP4	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-6.02-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP4	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-6.03-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP4	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-6.04-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP4	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-7.01-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	PANEL E	33,35	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-7.02-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	PANEL E	33,35	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-7.03-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	PANEL E	33,35	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-7.04-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	PANEL E	33,35	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-7.05-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	PANEL E	33,35	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-7.06-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	PANEL E	33,35	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-8.01-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP1	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-8.02-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP1	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-8.03-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP1	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-8.04-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP1	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-8.05-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP1	2,4	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-9.01-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP5-A	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-9.02-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP5-A	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-9.03-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP5-A	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-9.04-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP5-A	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-9.05-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP5-A	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-9.06-ALT	DAIKIN	FXZQ12TAVJU	2X2 CASETTE	208V/1PH	0.4	15	2	70	(N) PP5-A	7,9	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-10.01	DAIKIN	FXAQ24PVJU	WALL MOUNTED	208V/1PH	0.4	15	2	70	(N) PP1	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-10.02	DAIKIN	FXAQ24PVJU	WALL MOUNTED	208V/1PH	0.4	15	2	70	(N) PP1	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-10.03	DAIKIN	FXAQ24PVJU	WALL MOUNTED	208V/1PH	0.4	15	2	70	(N) PP1	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-10.04	DAIKIN	FXAQ24PVJU	WALL MOUNTED	208V/1PH	0.4	15	2	70	(N) PP1	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-10.05	DAIKIN	FXAQ07PVJU	WALL MOUNTED	208V/1PH	0.4	15	2	70	(N) PP1	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.
IDU-11.01	DAIKIN	FTK12B	WALL MOUNTED	208V/1PH	0.4	15	2	70	(N) PP1	9,11	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY MOUNTED MOTOR RATED SWITCH INSIDE UNIT.

EQUIPMENT SCHEDULE - EXHAUST FANS - ELECTRICAL POWER

EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	SUPPLY VOLTAGE	SUPPLY FAN MOTOR SIZE	FLA	MOP	NUMBER OF POLE	VA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
EF-18	GREENHECK	G-140-VG	115V/1PH	1/2	6.6	15	1	759	[redacted]	<unnamed>	MOTOR RATED SWITCH	(1 SET) 2#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH. ALL WEATHER EXPOSED CONDUIT RUNS SHALL BE ENCASED IN RIGID GALVANIZED STEEL
EF-19	GREENHECK	G-140-VG	115V/1PH	1/2	6.6	15	1	759	[redacted]	<unnamed>	MOTOR RATED SWITCH	(1 SET) 2#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH. ALL WEATHER EXPOSED CONDUIT RUNS SHALL BE ENCASED IN RIGID GALVANIZED STEEL
EF-21	GREENHECK	GB-300-3140XQDDRI	115V/1PH	1/2	9.8	20	1	1200	[redacted]	<unnamed>	MOTOR RATED SWITCH	(1 SET) 2#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH. ALL WEATHER EXPOSED CONDUIT RUNS SHALL BE ENCASED IN RIGID GALVANIZED STEEL
EF-22	GREENHECK	GB-300-3140XQDDRI	115V/1PH	1/2	9.8	20	1	1200	[redacted]	<unnamed>	MOTOR RATED SWITCH	(1 SET) 2#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH. ALL WEATHER EXPOSED CONDUIT RUNS SHALL BE ENCASED IN RIGID GALVANIZED STEEL
EF-33	GREENHECK	GB-300-15140XQD-DR1	208V/1PH	1.0	8.8	15	2	1830	(N) PP5-B	4,6	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	HARDWIRED	PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH. ALL WEATHER EXPOSED CONDUIT RUNS SHALL BE ENCASED IN RIGID GALVANIZED STEEL

EQUIPMENT SCHEDULE - AIR HANDLING UNITS - ELECTRICAL POWER

EQUIPMENT TAG	MANUFACTURER	MODEL NUMBER	SUPPLY VOLTAGE	FLA	MCA	MOP	NUMBER OF POLE	VA	PANEL NAME	CIRCUIT NUMBER	DISCONNECT	WIRE SIZE	CONNECTION TYPE	COMMENTS
T-1	DAIKIN	BCHE0401	208V/3PH	20.8	26	35	3	7508.8	(N) PP5-B	15,17,19	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
T-2	DAIKIN	BCHE0301	208V/3PH	11.5	14.4	25	3	4200	(N) PP5-B	14,16,18	30AF/NF	(1 SET) 4#10+1#10G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
T-5	DAIKIN	CAH015GDCM	208V/3PH	11.4	12.8	15	3	3700	(N) PP5-B	8,10,12	30AF/NF	(1 SET) 4#12+1#12G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
T-6	DAIKIN	CAH015GDCM	208V/3PH	11.4	12.8	15	3	3700	(N) PP5-B	9,11,13	30AF/NF	(1 SET) 4#12+1#12G IN 3/4"C	HARDWIRED	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO.	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

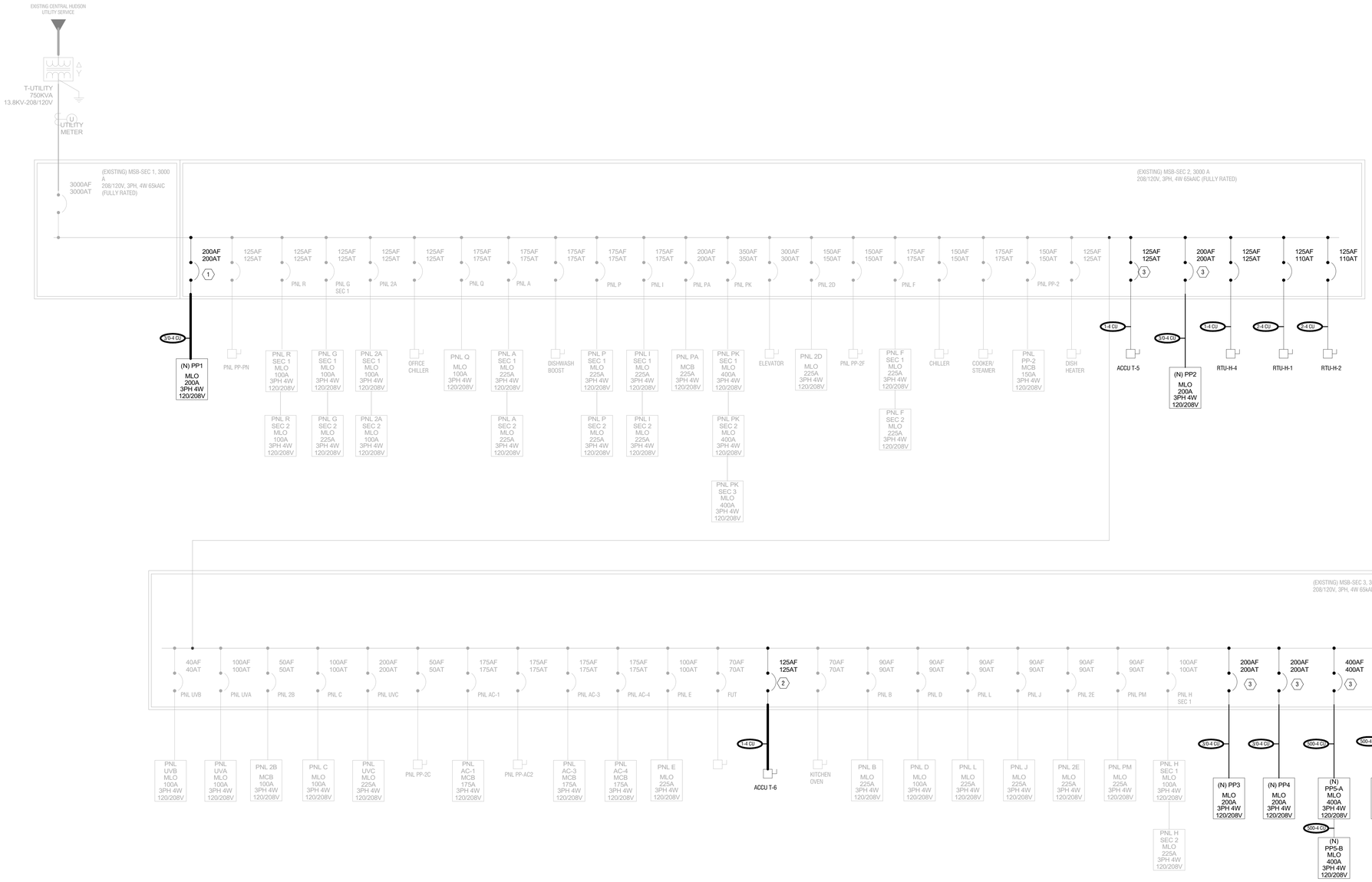
DRAWING NAME:

ELECTRICAL SYSTEM SCHEDULES

DRAWING NUMBER:

E632

11/6/2024 12:45:41 PM



GENERAL NOTES:

A. REFER TO SHEET E-631 FOR MECHANCAIL EQUIPMENT FEEDER INFORMATION.
B. TRANSFORMER REPLACEMENT IS REQUIRED FOR NEW SYSTEM OPERATION. THIS WORK IS NIC. UNITS ACCU T-5 AND ACCU-T-6 SHALL BE LOCKED OUT/TAGGED OUT (LOTO) UNTIL TRANSFORMER INSTALLATION.

KEYED NOTES:

1. REMOVE EXISTING SPARE 175AF/175AT CIRCUIT BREAKER FROM SWITCHGEAR AND RETROFIT NEW 200AF/200AT FOR NEW ELECTRICAL PANEL AS SHOWN.
2. REMOVE EXISTING SPARE 70AF/70AT CIRCUIT BREAKER FROM SWITCHGEAR AND RETROFIT NEW 125AF/125AT OR INSTALLED IN AVAILABLE SPACE FOR NEW ELECTRICAL DISCONNECT AS SHOWN.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EXISTING SWITCHBOARD MANUFACTURER AND PROVIDE NEW CIRCUIT BREAKER SHOWN IN AVAILABLE SPACE OF SWITCH BOARD SECTION.

1 E700 ELECTRICAL SINGLE LINE
1/8" = 1'-0"

COPPER FEEDER SCHEDULE

CONDUCTOR AND NEUTRAL SIZE	EGC SIZE	GEC SIZE	CONDUIT(S)*	310.15(B)16)75C
12	#12	-	.5"C	20A
10	#10	-	.5"C	30A
8	#10	-	.75"C	50A
6	#8	-	1.0"C	65A
4	#8	-	1.25"C	85A
3	#8	#8	1.25"C	100A
2	#6	#8	1.25"C	115A
1	#6	#6	1.5"C	130A
1/0	#6	#6	2"C	150A
2/0	#6	#4	2"C	175A
3/0	#6	#4	2"C	200A
4/0	#4	#2	2.5"C	230A
250	#4	#2	2.5"C	255A
300	#4	#2	3"C	285A
350	#3	#2	3"C	310A
400	#3	#1/0	3"C	335A
500	#3	#1/0	3.5"C	380A
600	#2	#1/0	4"C	420A
(2) SETS 250	#1	#1/0	(2)2.5"C	510A
(2) SETS 300	#1	#1/0	(2)3"C	570A
(2) SETS 350	#1/0	#2/0	(2)3"C	620A
(2) SETS 400	#1/0	#2/0	(2)3"C	670A
(2) SETS 500	#1/0	#2/0	(2)3.5"C	760A
(2) SETS 600	#1/0	#2/0	4"C	840A
(4) SETS 350	#3	#2	(4)3"C	1240A
(8) SETS 500	#1/0	#2/0	(8)4"C	3000A

*BASED ON TABLE C8 - RMC WITH 5 THHN CONDUCTORS

LEGEND: 12-4 = #12, 4WIRES
(2) 350-4 = 2 SETS 350, 4 WIRE PER SET

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

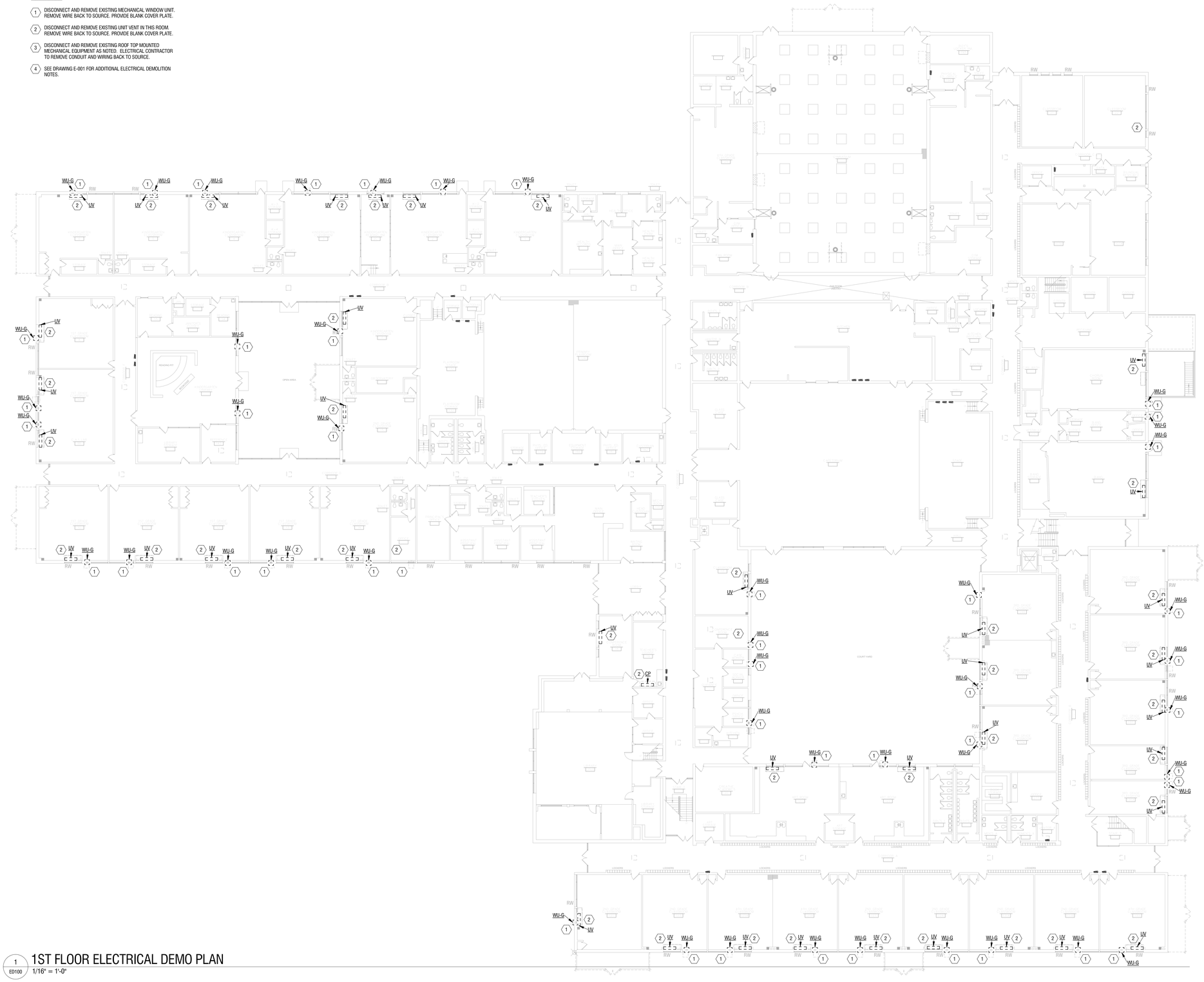
NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: ELECTRICAL ONE LINE DIAGRAM
DRAWING NUMBER: E700

11/6/2024 12:45:44 PM

KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING MECHANICAL WINDOW UNIT. REMOVE WIRE BACK TO SOURCE. PROVIDE BLANK COVER PLATE.
2. DISCONNECT AND REMOVE EXISTING UNIT VENT IN THIS ROOM. REMOVE WIRE BACK TO SOURCE. PROVIDE BLANK COVER PLATE.
3. DISCONNECT AND REMOVE EXISTING ROOF TOP MOUNTED MECHANICAL EQUIPMENT AS NOTED. ELECTRICAL CONTRACTOR TO REMOVE CONDUIT AND WIRING BACK TO SOURCE.
4. SEE DRAWING E-001 FOR ADDITIONAL ELECTRICAL DEMOLITION NOTES.



1 ED100 1ST FLOOR ELECTRICAL DEMO PLAN
1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

FIRST FLOOR ELECTRICAL DEMOLITION PLAN

DRAWING NUMBER:

ED100

11/6/2024 12:45:28 PM

KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING MECHANICAL WINDOW UNIT. REMOVE WIRE BACK TO SOURCE. PROVIDE BLANK COVER PLATE.
2. DISCONNECT AND REMOVE EXISTING UNIT VENT IN THIS ROOM. REMOVE WIRE BACK TO SOURCE. PROVIDE BLANK COVER PLATE.
3. DISCONNECT AND REMOVE EXISTING ROOF TOP MOUNTED MECHANICAL EQUIPMENT AS NOTED. ELECTRICAL CONTRACTOR TO REMOVE CONDUIT AND WIRING BACK TO SOURCE.
4. SEE DRAWING E-001 FOR ADDITIONAL ELECTRICAL DEMOLITION NOTES.

1 ED101 2ND FLOOR ELECTRICAL DEMO PLAN
1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR ELECTRICAL DEMOLITION PLAN

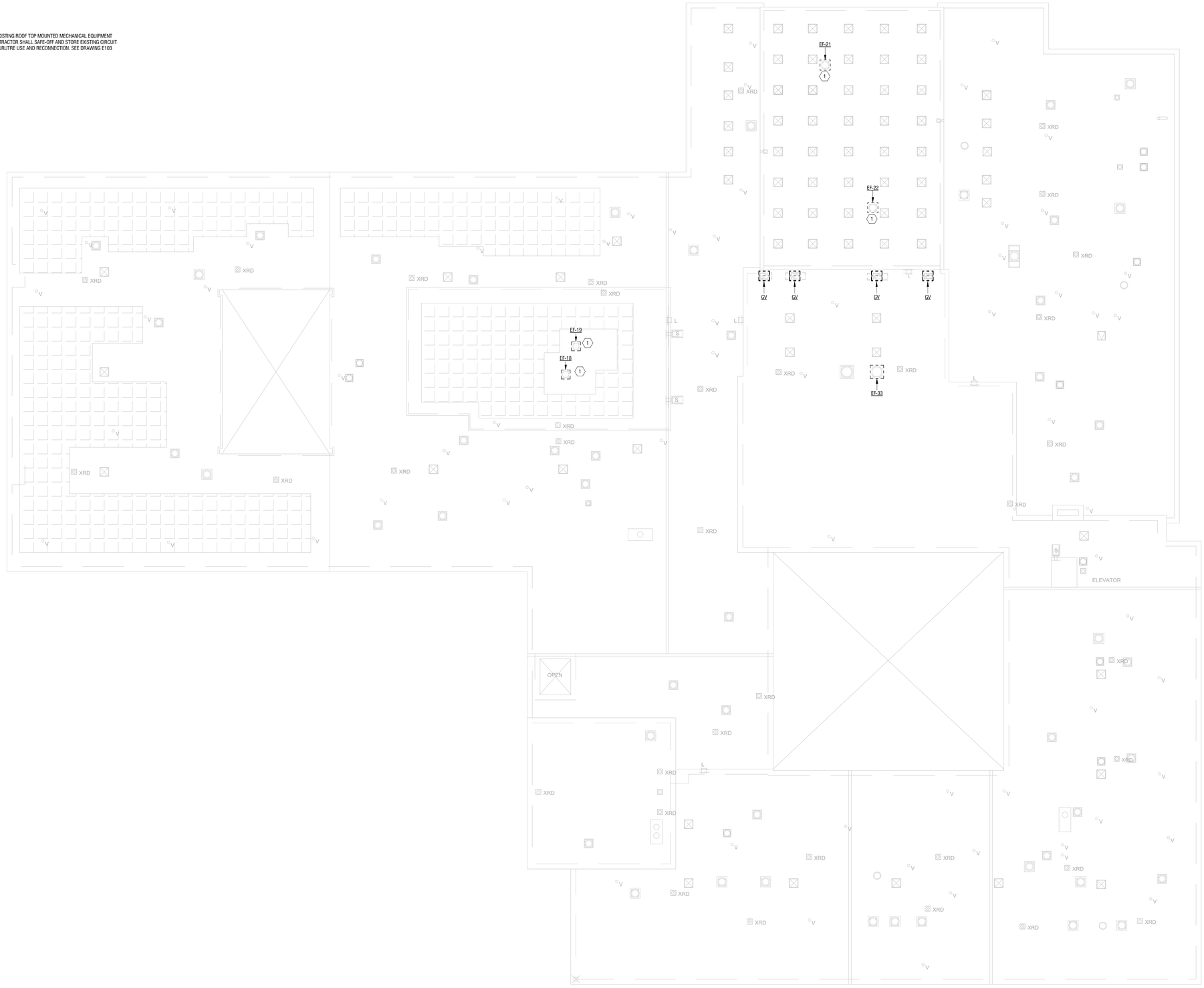
DRAWING NUMBER:

ED101

11/6/2024 12:45:29 PM

KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING ROOF TOP MOUNTED MECHANICAL EQUIPMENT AS NOTED. ELECTRICAL CONTRACTOR SHALL SAFE-OFF AND STORE EXISTING CIRCUIT IN NEW JUNCTION BOX FOR FURUTRE USE AND RECONNECTION. SEE DRAWING E103 FOR MORE INFORMATION.



1 ED102 ROOF ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

11/6/2024 12:45:29 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600

DRAWN BY: AL

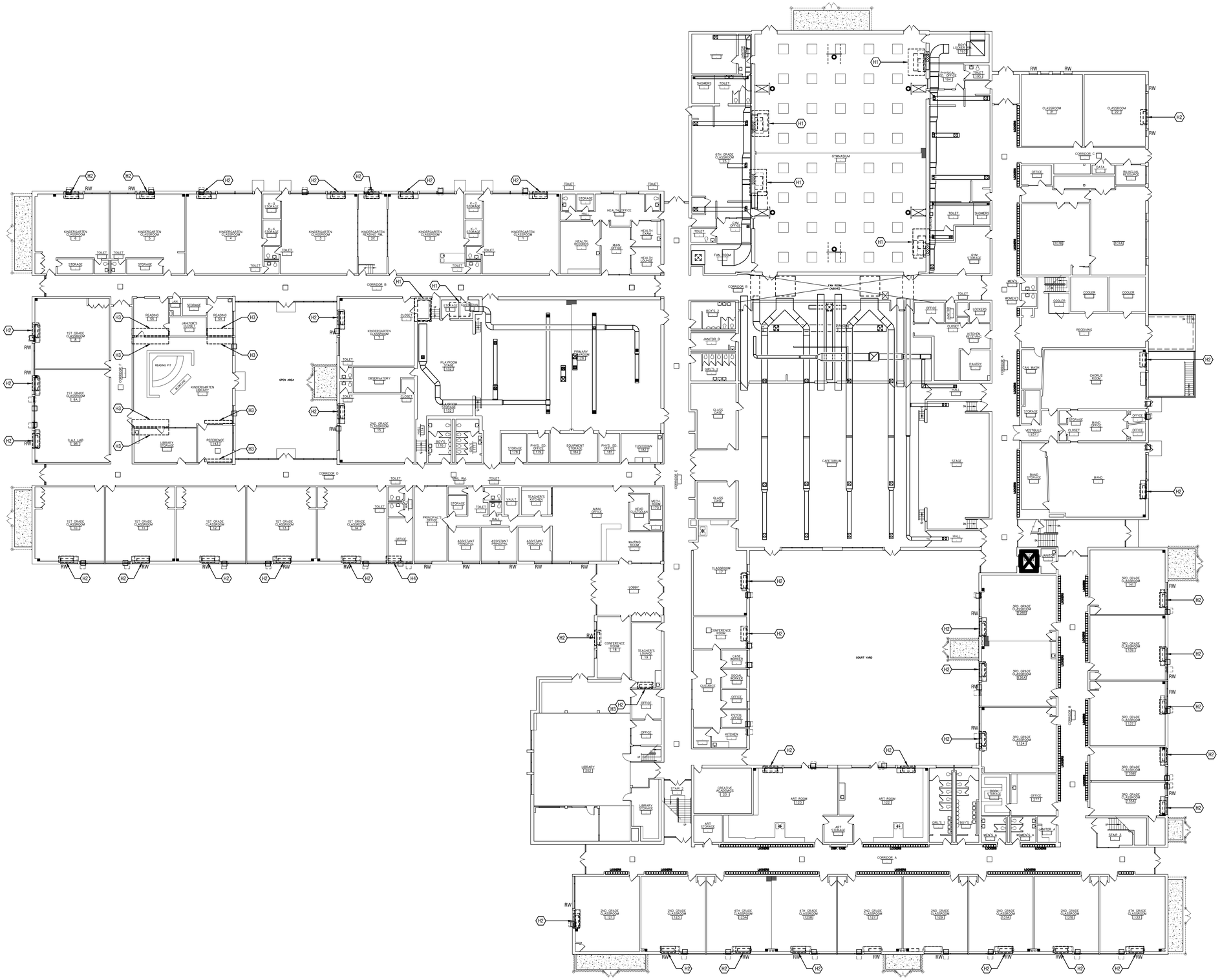
REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: ROOF ELECTRICAL DEMOLITION PLAN

DRAWING NUMBER: ED102



ASBESTOS GENERAL NOTES:

1. ALL ASBESTOS ABATEMENT WORK TO BE DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH CODE RULE 56 OF NEW YORK STATE RULES AND REGULATIONS, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
2. IN LIEU OF THE ABOVE REFERENCED REQUIREMENTS, THE CONTRACTOR MAY APPLY FOR A SITE-SPECIFIC VARIANCE. TO UTILIZE A SITE-SPECIFIC VARIANCE THE CONTRACTOR SHALL MEET ALL CONDITIONS OF THE VARIANCE, AS STATED BY THE NYS DEPARTMENT OF LABOR. ALL COSTS ASSOCIATED WITH THE APPLICATION OF SITE-SPECIFIC VARIANCES SHALL BE BORNE BY THE CONTRACTOR. ALL PROPOSED SITE-SPECIFIC VARIANCES SHALL BE REVIEWED BY THE CONSULTANT PRIOR TO SUBMITTAL TO THE NYSDOL.
3. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL, OR SUSPECT MATERIAL, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.
4. CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT BE LIABLE FOR THEFT OR DAMAGE.
5. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION. CONTRACTOR SHALL ENSURE THAT UNCERTIFIED PERSONNEL OR UNAUTHORIZED VISITORS DO NOT ENTER ACTIVE WORK AREAS AT ANY TIME.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY PROTECTION TO KEEP THE BUILDING IN A WATERTIGHT CONDITION AND TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES DURING THE DURATION OF THE PROJECT. REPAIR OR DAMAGE CAUSED AS A RESULT OF IMPROPER TEMPORARY PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT, AND WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
8. THE OWNER SHALL BE RESPONSIBLE FOR HIRING AND PAYING AN INDEPENDENT THIRD PARTY FIRM TO PERFORM ALL OF THE REQUIREMENTS OF MONITORING AS CALLED FOR IN CODE RULE 56.
9. MARKED AREAS DEPICTING WORK AREAS ARE APPROXIMATE ONLY. EXACT CUTOFF POINTS SHALL BE COORDINATED BY THE CONTRACTOR WITH OWNER'S REPRESENTATIVE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS AND ABATE MATERIALS SCHEDULED FOR REMOVAL.
11. ANY AND ALL ASSUMED ASBESTOS-CONTAINING MATERIALS SHALL BE ABATED AS ACM UNTIL TESTED OR PROVEN TO BE NEGATIVE OTHERWISE.
12. IF ADDITIONAL SUSPECT ACM IS DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER IMMEDIATELY.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CURRENT WASTE HANDLING, TRANSPORTATION AND DISPOSAL REGULATIONS FOR THE WORK. THE CONTRACTOR MUST DISPOSE OF ALL ASBESTOS MATERIALS REMOVED AND COMPLY FULLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
14. THE CONDITIONS SHOWN ON THIS DRAWING ARE BASED ON FIELD OBSERVATIONS AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. CONSEQUENCES OF FAILURE TO FIELD VERIFY CONDITIONS SHALL BE BORNE BY THE CONTRACTOR. MORE INFORMATION ON THE KNOWN ASBESTOS CONTAINING MATERIALS ASSOCIATED WITH THIS PROJECT CAN BE FOUND IN THE LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION REPORTS ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING WATER AND ELECTRICAL UTILITY CONNECTIONS REQUIRED OF ABATEMENT PROCEDURES. COORDINATE WITH BUILDING OWNER OR OWNER'S REPRESENTATIVE.

LEAD AWARENESS NOTES:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION: INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD. SEE SPECIFICATION SECTION 020810 - PROTECTION OF WORKERS - LEAD-CONTAINING MATERIALS FOR ADDITIONAL INFORMATION.

B. THE CONTRACTOR IS RESPONSIBLE FOR PROPER HANDLING AND DISPOSAL OF LEAD-CONTAINING WASTE.

C. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THEIR EMPLOYEES AND SUBCONTRACTORS OF THE PRESENCE AND LOCATIONS OF LEAD-CONTAINING MATERIALS, AND TO WARN THEIR EMPLOYEES AND SUBCONTRACTORS OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF LEAD-CONTAINING MATERIALS.

D. CONTRACTORS ARE HEREBY NOTIFIED THAT SOME LEAD-CONTAINING BUILDING MATERIALS HAVE BEEN IDENTIFIED AND MAY BE DISTURBED DURING COMPLETION OF THE WORK ON THIS PROJECT. INFORMATION ON LEAD-CONTAINING MATERIALS IS INCLUDED IN THE "LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION" REPORT ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.

ASBESTOS REMOVAL NOTES:

H1 REMOVE FROM THE AREAS INDICATED ASBESTOS-CONTAINING MUDDED JOINT PACKING IN ITS ENTIRETY. JOINT PACKING AND ASSOCIATED MATERIALS SHALL BE DISPOSED OF AS AN ACM. SEE MECHANICAL DRAWINGS FOR EXACT REMOVAL LIMITS.

H2 REMOVE FROM THE AREAS INDICATED ALL FLOORING, INCLUDING ASBESTOS-CONTAINING FLOOR TILES AND FLOOR MASTIC IN ITS ENTIRETY. FLOORING SHALL BE REMOVED DOWN TO SUBFLOOR. CONTRACTOR SHALL REMOVE ANY AND ALL FLOOR-MOUNTED FIXTURES WITHIN INDICATED AREA. FLOOR TILES, MASTIC, AND ASSOCIATED MATERIALS SHALL BE DISPOSED OF AS AN ACM.

H3 REMOVE FROM THE AREAS INDICATED ASBESTOS-CONTAINING BLOCK PAINT. CONTRACTOR SHALL MAKE ANY AND ALL PENETRATIONS THROUGH PAINTED CMU BLOCK AS NECESSARY FOR DEMOLITION OF EXISTING FIXTURES OR INSTALLATION OF NEW FIXTURES. REFER TO MECHANICAL DRAWINGS FOR EXACT PENETRATION LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT REMOVAL LIMITATIONS.

1 H101 1ST FLOOR HAZARDOUS MATERIAL REMOVAL PLAN
1/16" = 1'-0"

12/19/2023 4:56:44 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017876
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600
DRAWN BY: CS
REVIEWED BY: CH
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

FIRST FLOOR HAZARDOUS MATERIAL REMOVAL PLAN

DRAWING NUMBER:

H101

1 H102 2ND FLOOR HAZARDOUS MATERIAL REMOVAL PLAN
1/16" = 1'-0"

ASBESTOS GENERAL NOTES:

1. ALL ASBESTOS ABATEMENT WORK TO BE DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH CODE RULE 56 OF NEW YORK STATE RULES AND REGULATIONS, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
2. IN LIEU OF THE ABOVE REFERENCED REQUIREMENTS, THE CONTRACTOR MAY APPLY FOR A SITE-SPECIFIC VARIANCE. TO UTILIZE A SITE-SPECIFIC VARIANCE THE CONTRACTOR SHALL MEET ALL CONDITIONS OF THE VARIANCE, AS STATED BY THE NYS DEPARTMENT OF LABOR. ALL COSTS ASSOCIATED WITH THE APPLICATION OF SITE-SPECIFIC VARIANCES SHALL BE BORNE BY THE CONTRACTOR. ALL PROPOSED SITE-SPECIFIC VARIANCES SHALL BE REVIEWED BY THE CONSULTANT PRIOR TO SUBMITTAL TO THE NYSDOL.
3. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL, OR SUSPECT MATERIAL, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.
4. CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT BE LIABLE FOR THEFT OR DAMAGE.
5. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION. CONTRACTOR SHALL ENSURE THAT UNCERTIFIED PERSONNEL OR UNAUTHORIZED VISITORS DO NOT ENTER ACTIVE WORK AREAS AT ANY TIME.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY PROTECTION TO KEEP THE BUILDING IN A WATERTIGHT CONDITION AND TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES DURING THE DURATION OF THE PROJECT. REPAIR OR DAMAGE CAUSED AS A RESULT OF IMPROPER TEMPORARY PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT, AND WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
8. THE OWNER SHALL BE RESPONSIBLE FOR HIRING AND PAYING AN INDEPENDENT THIRD PARTY FIRM TO PERFORM ALL OF THE REQUIREMENTS OF MONITORING AS CALLED FOR IN CODE RULE 56.
9. MARKED AREAS DEPICTING WORK AREAS ARE APPROXIMATE ONLY. EXACT CUTOFF POINTS SHALL BE COORDINATED BY THE CONTRACTOR WITH OWNER'S REPRESENTATIVE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS AND ABATE MATERIALS SCHEDULED FOR REMOVAL.
11. ANY AND ALL ASSUMED ASBESTOS-CONTAINING MATERIALS SHALL BE ABATED AS ACM UNTIL TESTED OR PROVEN TO BE NEGATIVE OTHERWISE.
12. IF ADDITIONAL SUSPECT ACM IS DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER IMMEDIATELY.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CURRENT WASTE HANDLING, TRANSPORTATION AND DISPOSAL REGULATIONS FOR THE WORK. THE CONTRACTOR MUST DISPOSE OF ALL ASBESTOS MATERIALS REMOVED AND COMPLY FULLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
14. THE CONDITIONS SHOWN ON THIS DRAWING ARE BASED ON FIELD OBSERVATIONS AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. CONSEQUENCES OF FAILURE TO FIELD VERIFY CONDITIONS SHALL BE BORNE BY THE CONTRACTOR. MORE INFORMATION ON THE KNOWN ASBESTOS CONTAINING MATERIALS ASSOCIATED WITH THIS PROJECT CAN BE FOUND IN THE LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION REPORTS ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING WATER AND ELECTRICAL UTILITY CONNECTIONS REQUIRED OF ABATEMENT PROCEDURES. COORDINATE WITH BUILDING OWNER OR OWNER'S REPRESENTATIVE.

LEAD AWARENESS NOTES:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION: INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD. SEE SPECIFICATION SECTION 020810 - PROTECTION OF WORKERS - LEAD-CONTAINING MATERIALS FOR ADDITIONAL INFORMATION.

B. THE CONTRACTOR IS RESPONSIBLE FOR PROPER HANDLING AND DISPOSAL OF LEAD-CONTAINING WASTE.

C. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THEIR EMPLOYEES AND SUBCONTRACTORS OF THE PRESENCE AND LOCATIONS OF LEAD-CONTAINING MATERIALS, AND TO WARN THEIR EMPLOYEES AND SUBCONTRACTORS OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF LEAD-CONTAINING MATERIALS.

D. CONTRACTORS ARE HEREBY NOTIFIED THAT SOME LEAD-CONTAINING BUILDING MATERIALS HAVE BEEN IDENTIFIED AND MAY BE DISTURBED DURING COMPLETION OF THE WORK ON THIS PROJECT. INFORMATION ON LEAD-CONTAINING MATERIALS IS INCLUDED IN THE "LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION" REPORT ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.

ASBESTOS REMOVAL NOTES:

H1 REMOVE FROM THE AREAS INDICATED ASBESTOS-CONTAINING MUDDED JOINT PACKING IN ITS ENTIRETY. JOINT PACKING AND ASSOCIATED MATERIALS SHALL BE DISPOSED OF AS AN ACM. SEE MECHANICAL DRAWINGS FOR EXACT REMOVAL LIMITS.

H2 REMOVE FROM THE AREAS INDICATED ALL FLOORING, INCLUDING ASBESTOS-CONTAINING FLOOR TILES AND FLOOR MASTIC IN ITS ENTIRETY. FLOORING SHALL BE REMOVED DOWN TO SUBFLOOR. CONTRACTOR SHALL REMOVE ANY AND ALL FLOOR-MOUNTED FIXTURES WITHIN INDICATED AREA. FLOOR TILES, MASTIC, AND ASSOCIATED MATERIALS SHALL BE DISPOSED OF AS AN ACM.

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017876
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

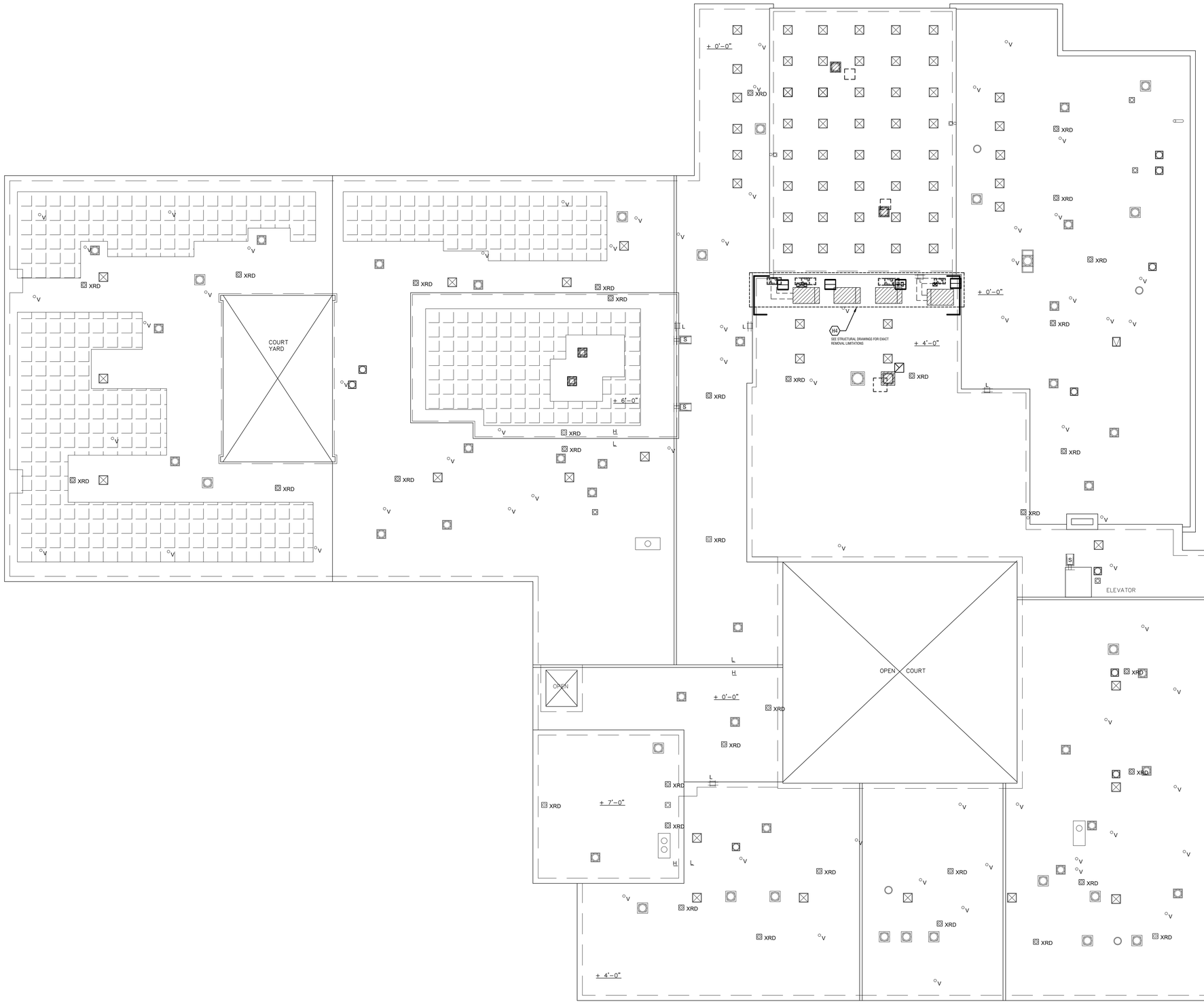
PROJECT NUMBER: 2233600
DRAWN BY: CS
REVIEWED BY: CH
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR HAZARDOUS MATERIAL REMOVAL PLAN

DRAWING NUMBER:

H102

12/19/2023 4:56:44 PM



ASBESTOS GENERAL NOTES:

1. ALL ASBESTOS ABATEMENT WORK TO BE DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH CODE RULE 56 OF NEW YORK STATE RULES AND REGULATIONS, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
2. IN LIEU OF THE ABOVE REFERENCED REQUIREMENTS, THE CONTRACTOR MAY APPLY FOR A SITE-SPECIFIC VARIANCE. TO UTILIZE A SITE-SPECIFIC VARIANCE THE CONTRACTOR SHALL MEET ALL CONDITIONS OF THE VARIANCE, AS STATED BY THE NYS DEPARTMENT OF LABOR. ALL COSTS ASSOCIATED WITH THE APPLICATION OF SITE-SPECIFIC VARIANCES SHALL BE BORNE BY THE CONTRACTOR. ALL PROPOSED SITE-SPECIFIC VARIANCES SHALL BE REVIEWED BY THE CONSULTANT PRIOR TO SUBMITTAL TO THE NYSDOL.
3. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL, OR SUSPECT MATERIAL, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.
4. CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT BE LIABLE FOR THEFT OR DAMAGE.
5. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION. CONTRACTOR SHALL ENSURE THAT UNCERTIFIED PERSONNEL OR UNAUTHORIZED VISITORS DO NOT ENTER ACTIVE WORK AREAS AT ANY TIME.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY PROTECTION TO KEEP THE BUILDING IN A WATERTIGHT CONDITION AND TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES DURING THE DURATION OF THE PROJECT. REPAIR OR DAMAGE CAUSED AS A RESULT OF IMPROPER TEMPORARY PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT, AND WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
8. THE OWNER SHALL BE RESPONSIBLE FOR HIRING AND PAYING AN INDEPENDENT THIRD PARTY FIRM TO PERFORM ALL OF THE REQUIREMENTS OF MONITORING AS CALLED FOR IN CODE RULE 56.
9. MARKED AREAS DEPICTING WORK AREAS ARE APPROXIMATE ONLY. EXACT CUTOFF POINTS SHALL BE COORDINATED BY THE CONTRACTOR WITH OWNER'S REPRESENTATIVE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS AND ABATE MATERIALS SCHEDULED FOR REMOVAL.
11. ANY AND ALL ASSUMED ASBESTOS-CONTAINING MATERIALS SHALL BE ABATED AS ACM UNTIL TESTED OR PROVEN TO BE NEGATIVE OTHERWISE.
12. IF ADDITIONAL SUSPECT ACM IS DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER IMMEDIATELY.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CURRENT WASTE HANDLING, TRANSPORTATION AND DISPOSAL REGULATIONS FOR THE WORK. THE CONTRACTOR MUST DISPOSE OF ALL ASBESTOS MATERIALS REMOVED AND COMPLY FULLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
14. THE CONDITIONS SHOWN ON THIS DRAWING ARE BASED ON FIELD OBSERVATIONS AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. CONSEQUENCES OF FAILURE TO FIELD VERIFY CONDITIONS SHALL BE BORNE BY THE CONTRACTOR. MORE INFORMATION ON THE KNOWN ASBESTOS CONTAINING MATERIALS ASSOCIATED WITH THIS PROJECT CAN BE FOUND IN THE LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION REPORTS ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING WATER AND ELECTRICAL UTILITY CONNECTIONS REQUIRED OF ABATEMENT PROCEDURES. COORDINATE WITH BUILDING OWNER OR OWNER'S REPRESENTATIVE.

LEAD AWARENESS NOTES:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION: INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD. SEE SPECIFICATION SECTION 020810 - PROTECTION OF WORKERS - LEAD-CONTAINING MATERIALS FOR ADDITIONAL INFORMATION.

B. THE CONTRACTOR IS RESPONSIBLE FOR PROPER HANDLING AND DISPOSAL OF LEAD-CONTAINING WASTE.

C. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THEIR EMPLOYEES AND SUBCONTRACTORS OF THE PRESENCE AND LOCATIONS OF LEAD-CONTAINING MATERIALS, AND TO WARN THEIR EMPLOYEES AND SUBCONTRACTORS OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF LEAD-CONTAINING MATERIALS.

D. CONTRACTORS ARE HEREBY NOTIFIED THAT SOME LEAD-CONTAINING BUILDING MATERIALS HAVE BEEN IDENTIFIED AND MAY BE DISTURBED DURING COMPLETION OF THE WORK ON THIS PROJECT. INFORMATION ON LEAD-CONTAINING MATERIALS IS INCLUDED IN THE "LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION" REPORT ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.

ASBESTOS REMOVAL NOTES:

(H4) REMOVE FROM THE AREAS INDICATED ASSUMED ASBESTOS-CONTAINING ROOFING MATERIALS DOWN TO ROOF DECK. CONTRACTOR SHALL MAKE ANY AND ALL PENETRATIONS THROUGH ROOFING MATERIALS AS NECESSARY FOR THE DEMOLITION OF EXISTING FIXTURES OR INSTALLATION OF NEW FIXTURES. REFER TO MECHANICAL DRAWINGS FOR EXACT PENETRATION LOCATIONS.

1 H103 ROOF HAZARDOUS MATERIAL REMOVAL PLAN
1/16" = 1'-0"

12/19/2023 4:56:44 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017876
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

MEADOW HILL GEM SCHOOL
124 MEADOW HILL ROAD
NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-035-014

PROJECT NUMBER: 2233600
DRAWN BY: CS
REVIEWED BY: CH
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

ROOF HAZARDOUS MATERIAL REMOVAL PLAN

DRAWING NUMBER:

H103

LEGEND

NO WORK IN THIS AREA

1 A100 EXISTING BASEMENT FLOOR PLAN

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

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

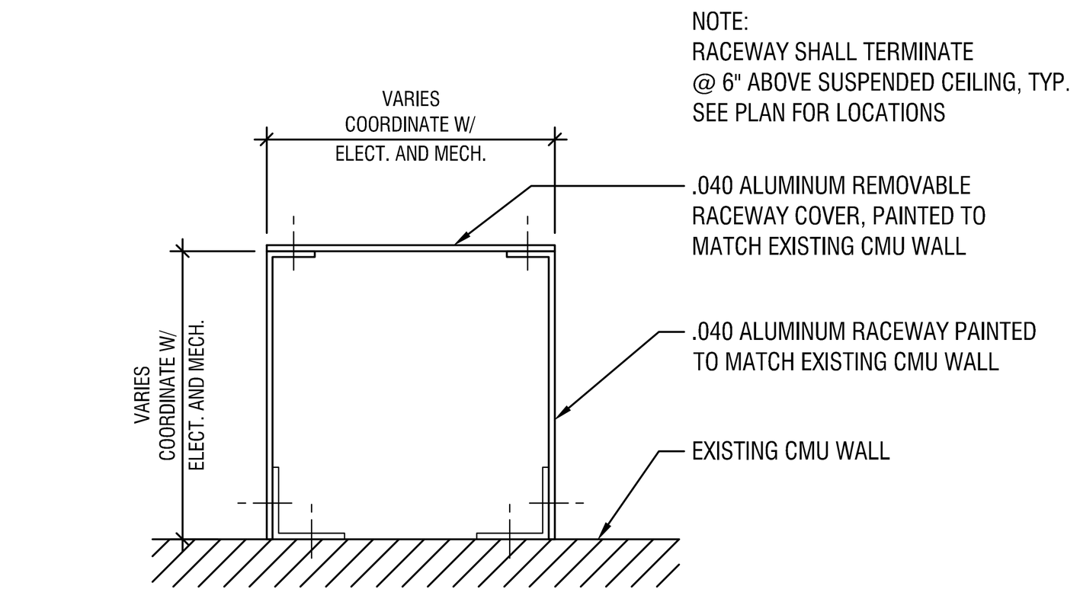
DRAWING NAME:

BASEMENT FLOOR PLAN

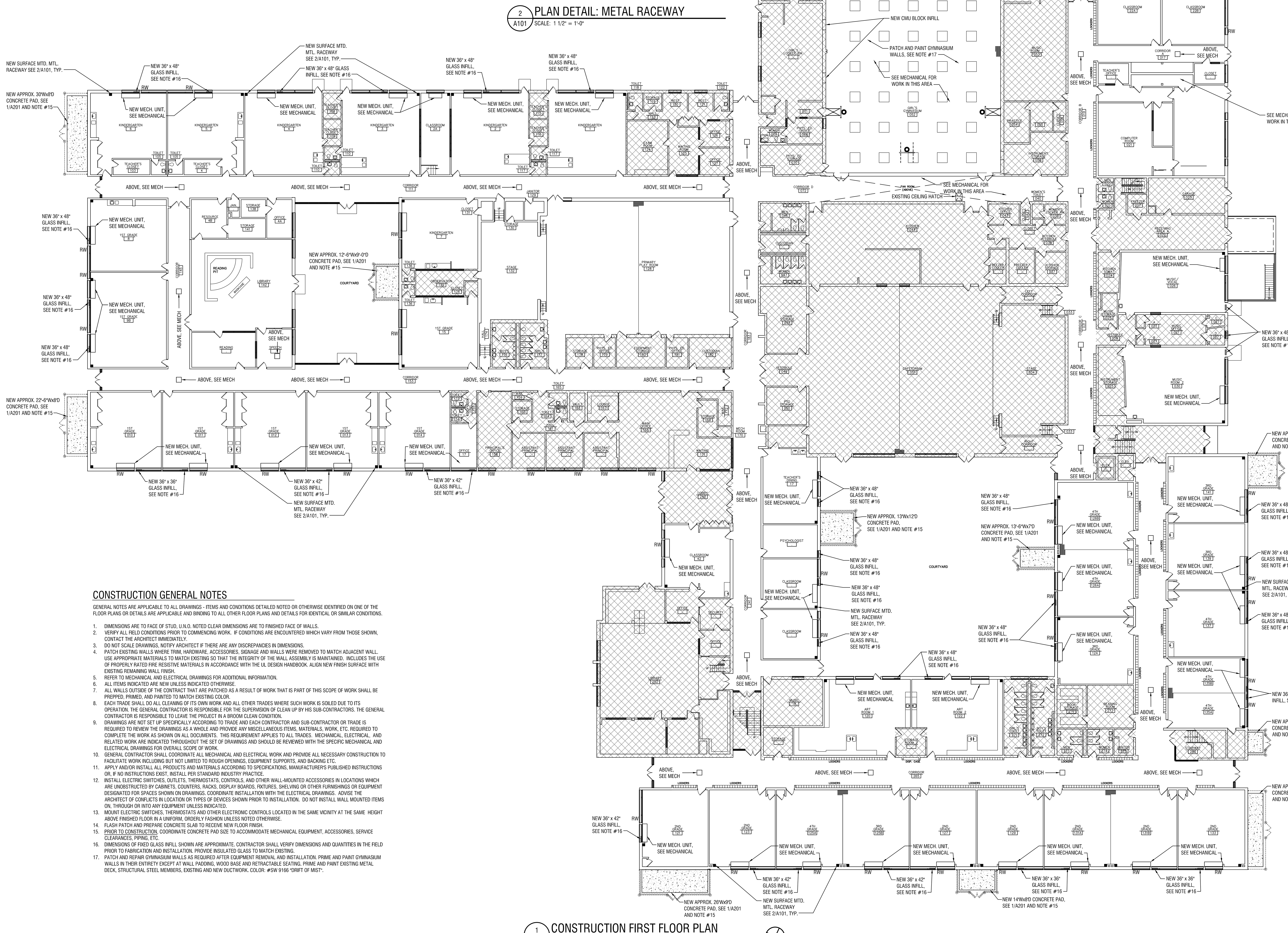
DRAWING NUMBER:

A100

11/5/2024 12:04:43 PM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\2233600 THA A100 BASEMENT FLOOR PLAN.dwg



2 A101 PLAN DETAIL: METAL RACEWAY
SCALE: 1 1/2" = 1'-0"



1 A101 CONSTRUCTION FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

CONSTRUCTION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. DIMENSIONS ARE TO FACE OF STUD, U.N.O. NOTED CLEAR DIMENSIONS ARE TO FINISHED FACE OF WALLS.
2. VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCING WORK. IF CONDITIONS ARE ENCOUNTERED WHICH VARY FROM THOSE SHOWN, CONTACT THE ARCHITECT IMMEDIATELY.
3. DO NOT SCALE DRAWINGS, NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES IN DIMENSIONS.
4. PATCH EXISTING WALLS WHERE TRIM, HARDWARE, ACCESSORIES, SIGNAGE AND WALLS WERE REMOVED TO MATCH ADJACENT WALL. USE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. INCLUDES THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS IN ACCORDANCE WITH THE UL DESIGN HANDBOOK. ALIGN NEW FINISH SURFACE WITH EXISTING REMAINING WALL FINISH.
5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL ITEMS INDICATED ARE NEW UNLESS INDICATED OTHERWISE.
7. ALL WALLS OUTSIDE OF THE CONTRACT THAT ARE PATCHED AS A RESULT OF WORK THAT IS PART OF THIS SCOPE OF WORK SHALL BE PREPPED, PRIMED, AND PAINTED TO MATCH EXISTING COLOR.
8. EACH TRADE SHALL DO ALL CLEANING OF ITS OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO ITS OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUB-CONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
9. DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISCELLANEOUS ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. MECHANICAL, ELECTRICAL, AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MECHANICAL AND ELECTRICAL DRAWINGS FOR OVERALL SCOPE OF WORK.
10. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING ETC.
11. APPLY AND/OR INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO SPECIFICATIONS, MANUFACTURER'S PUBLISHED INSTRUCTIONS OR, IF NO INSTRUCTIONS EXIST, INSTALL PER STANDARD INDUSTRY PRACTICE.
12. INSTALL ELECTRIC SWITCHES, OUTLETS, THERMOSTATS, CONTROLS, AND OTHER WALL-MOUNTED ACCESSORIES IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, DISPLAY BOARDS, FIXTURES, SHELVING OR OTHER FURNISHINGS OR EQUIPMENT DESIGNATED FOR SPACES SHOWN ON DRAWINGS. COORDINATE INSTALLATION WITH THE ELECTRICAL DRAWINGS. ADVISE THE ARCHITECT OF CONFLICTS IN LOCATION OR TYPES OF DEVICES SHOWN PRIOR TO INSTALLATION. DO NOT INSTALL WALL MOUNTED ITEMS ON, THROUGH OR INTO ANY EQUIPMENT UNLESS INDICATED.
13. MOUNT ELECTRIC SWITCHES, THERMOSTATS AND OTHER ELECTRONIC CONTROLS LOCATED IN THE SAME VICINITY AT THE SAME HEIGHT ABOVE FINISHED FLOOR IN A UNIFORM, ORDERLY FASHION UNLESS NOTED OTHERWISE.
14. FLASH PATCH AND PREPARE CONCRETE SLAB TO RECEIVE NEW FLOOR FINISH.
15. PRIOR TO CONSTRUCTION, COORDINATE CONCRETE PAD SIZE TO ACCOMMODATE MECHANICAL EQUIPMENT, ACCESSORIES, SERVICE CLEARANCES, PIPING, ETC.
16. DIMENSIONS OF FIXED GLASS INFILL SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY DIMENSIONS AND QUANTITIES IN THE FIELD PRIOR TO FABRICATION AND INSTALLATION. PROVIDE INSULATED GLASS TO MATCH EXISTING.
17. PATCH AND REPAIR GYMNASIUM WALLS AS REQUIRED AFTER EQUIPMENT REMOVAL AND INSTALLATION. PRIME AND PAINT GYMNASIUM WALLS IN THEIR ENTIRETY EXCEPT AT WALL PADDING, WOOD BASE AND RETRACTABLE SEATING. PRIME AND PAINT EXISTING METAL DECK, STRUCTURAL STEEL MEMBERS, EXISTING AND NEW DUCTWORK. COLOR: #SW 9166 "DRIFT OF MIST".

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION
EXP:
EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:

Revisions

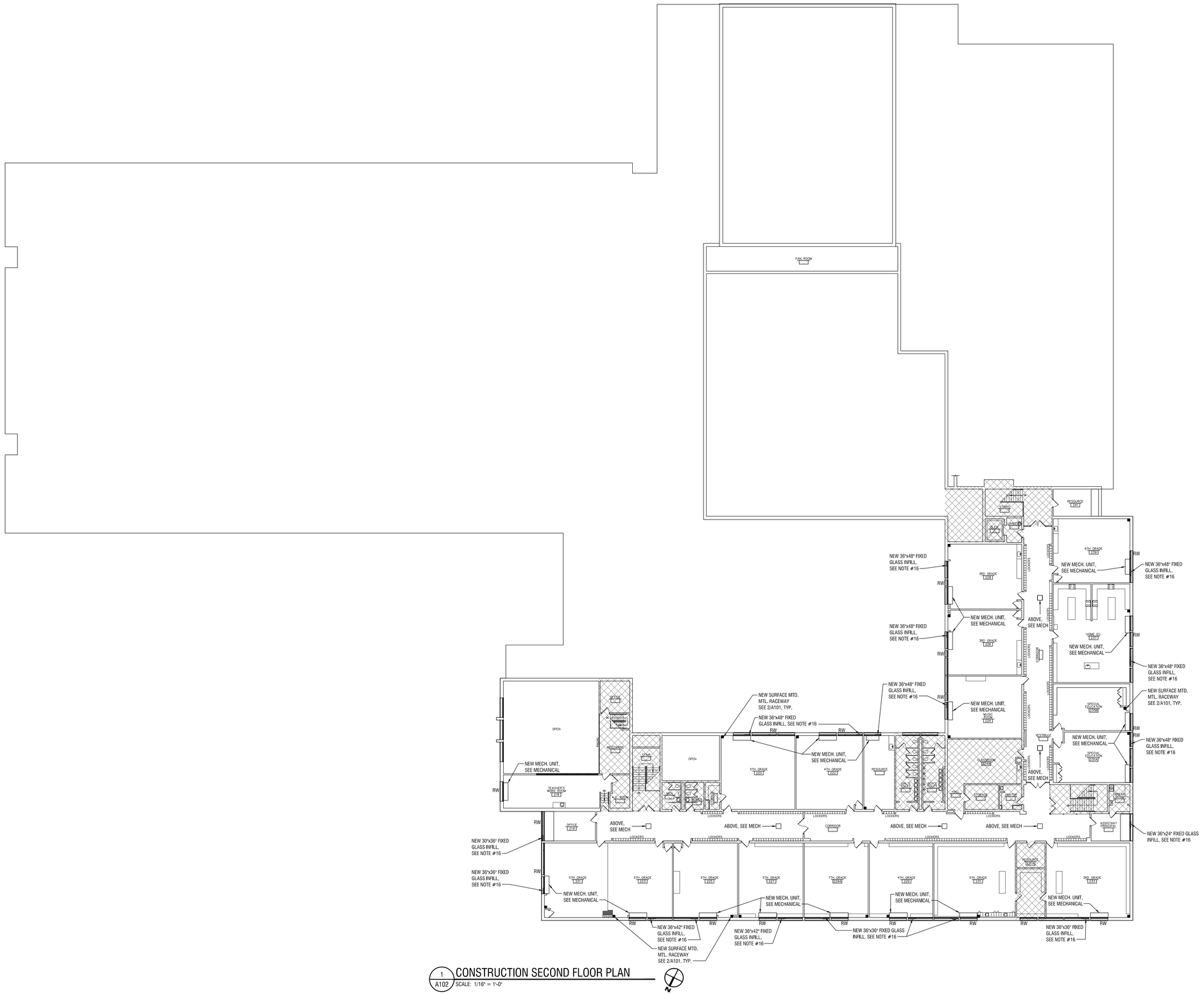
SED #: 44-16-00-01-0-036-015

PROJECT NUMBER:	2233600
DRAWN BY:	JR
REVIEWED BY:	PM
ISSUED FOR:	BID
DATE:	11/12/2024
DRAWING NAME:	CONSTRUCTION FIRST FLOOR PLAN
DRAWING NUMBER:	A101

11/5/2024 12:08:24 PM
\\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Hec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\2233600 THA A101 FIRST FLOOR PLAN.dwg

LEGEND

NO WORK IN THIS AREA



1 / A102 CONSTRUCTION SECOND FLOOR PLAN

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

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

CONSTRUCTION SECOND FLOOR PLAN

DRAWING NUMBER:

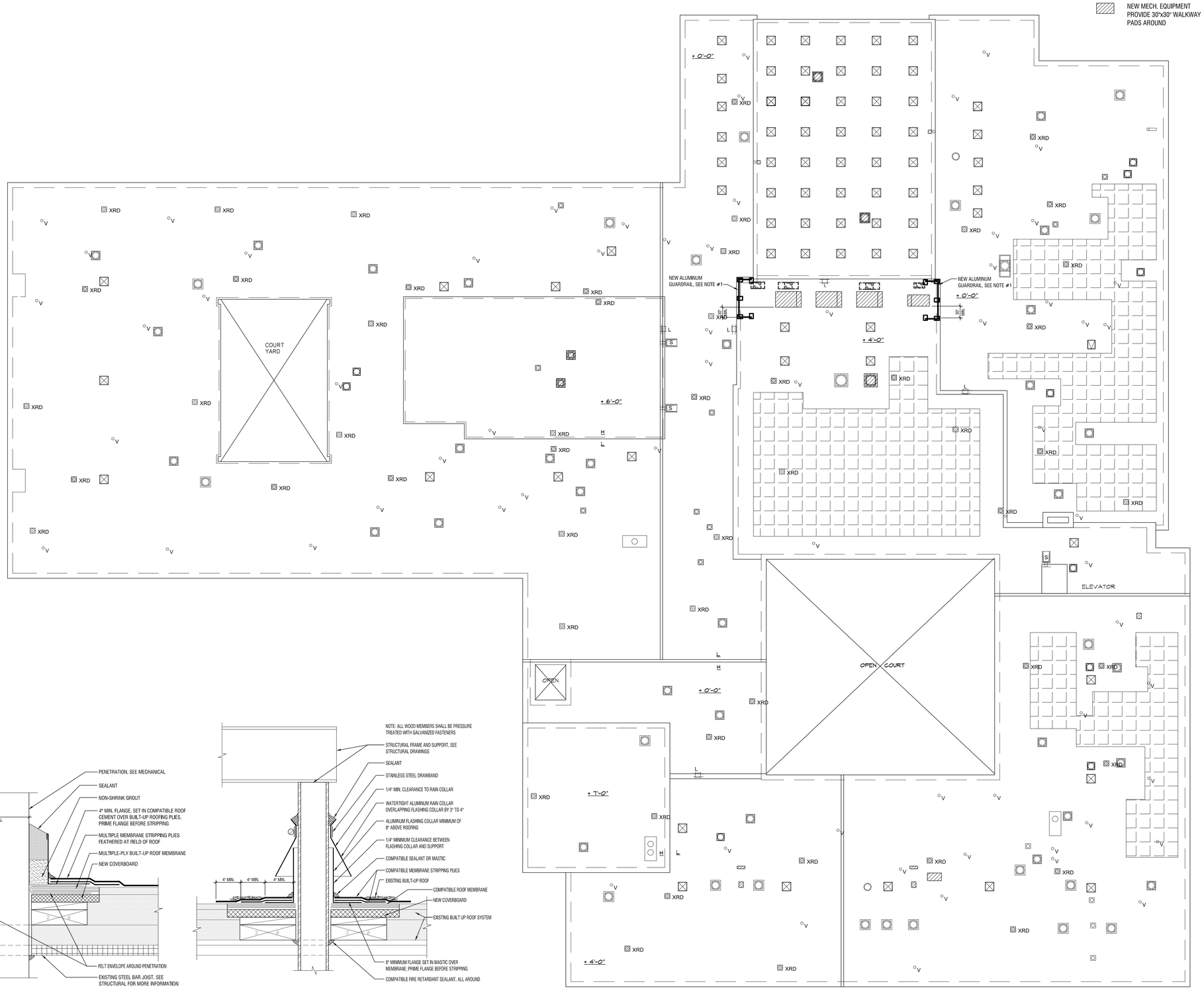
A102

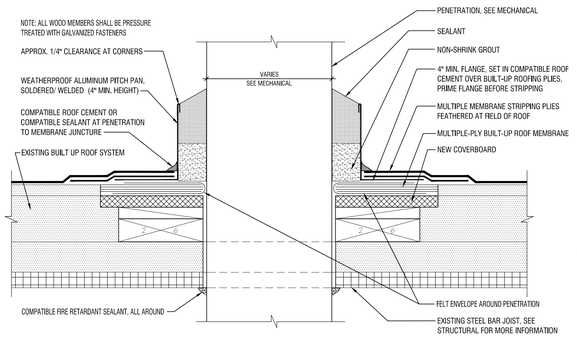
NOTES

1. NEW NON-PENETRATING GUARDRAIL AND ASSOCIATED COMPONENTS BY SAFEPRO SAFETY PRODUCTS. SEE SPECIFICATIONS.

LEGEND

- EXISTING MECH. EQUIPMENT
- EXISTING SKYLIGHT
- EXISTING SOLAR PANELS
- NEW MECH. EQUIPMENT PROVIDE 30"x30" WALKWAY PADS AROUND





3 A103 PENETRATION POCKET DETAIL
SCALE: 3" = 1'-0"

2 A103 EQUIPMENT STRUCTURAL SUPPORT PENETRATION
SCALE: 3" = 1'-0"

1 A103 ROOF PLAN
SCALE: 1/16" = 1'-0"

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION
EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

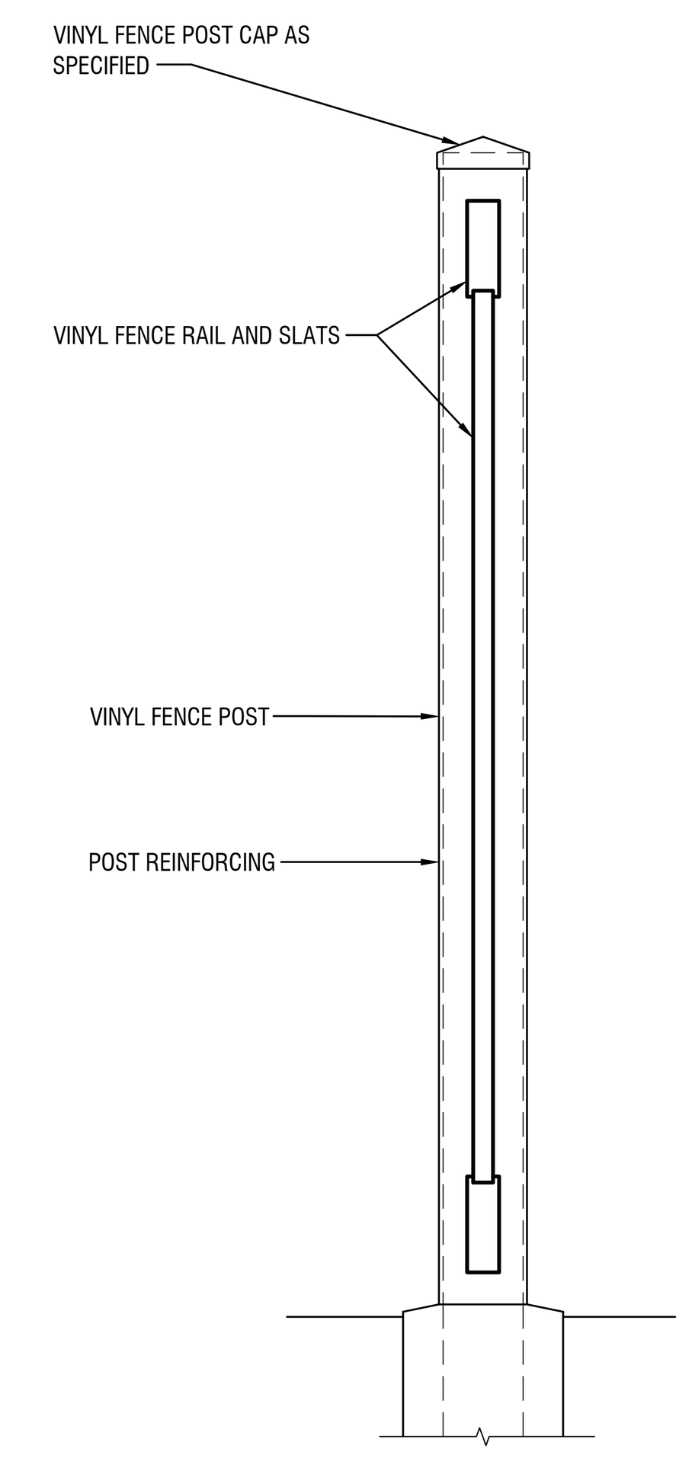
ISSUED FOR: BID

DATE: 11/12/2024

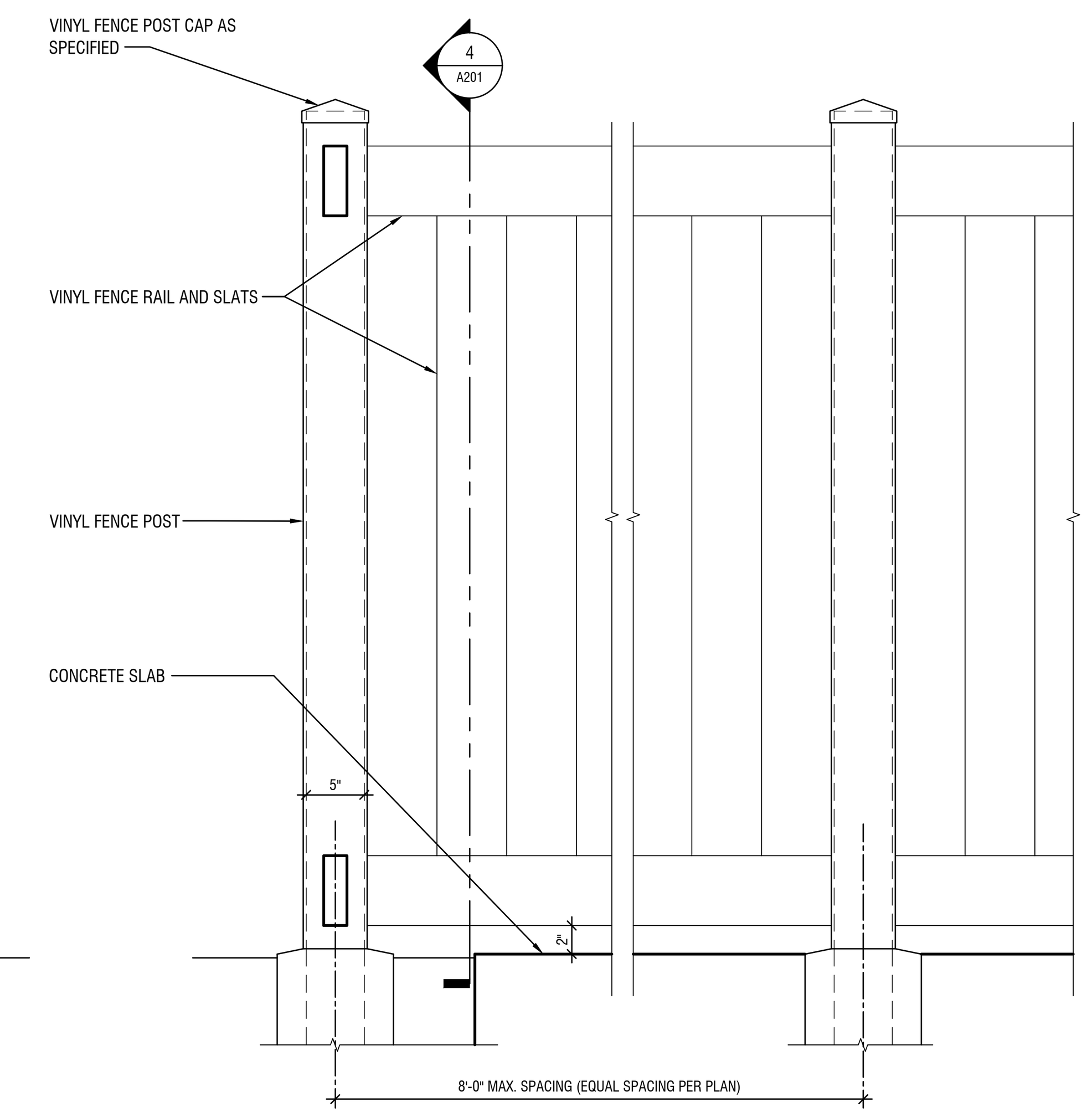
DRAWING NAME: ROOF PLAN

DRAWING NUMBER: A103

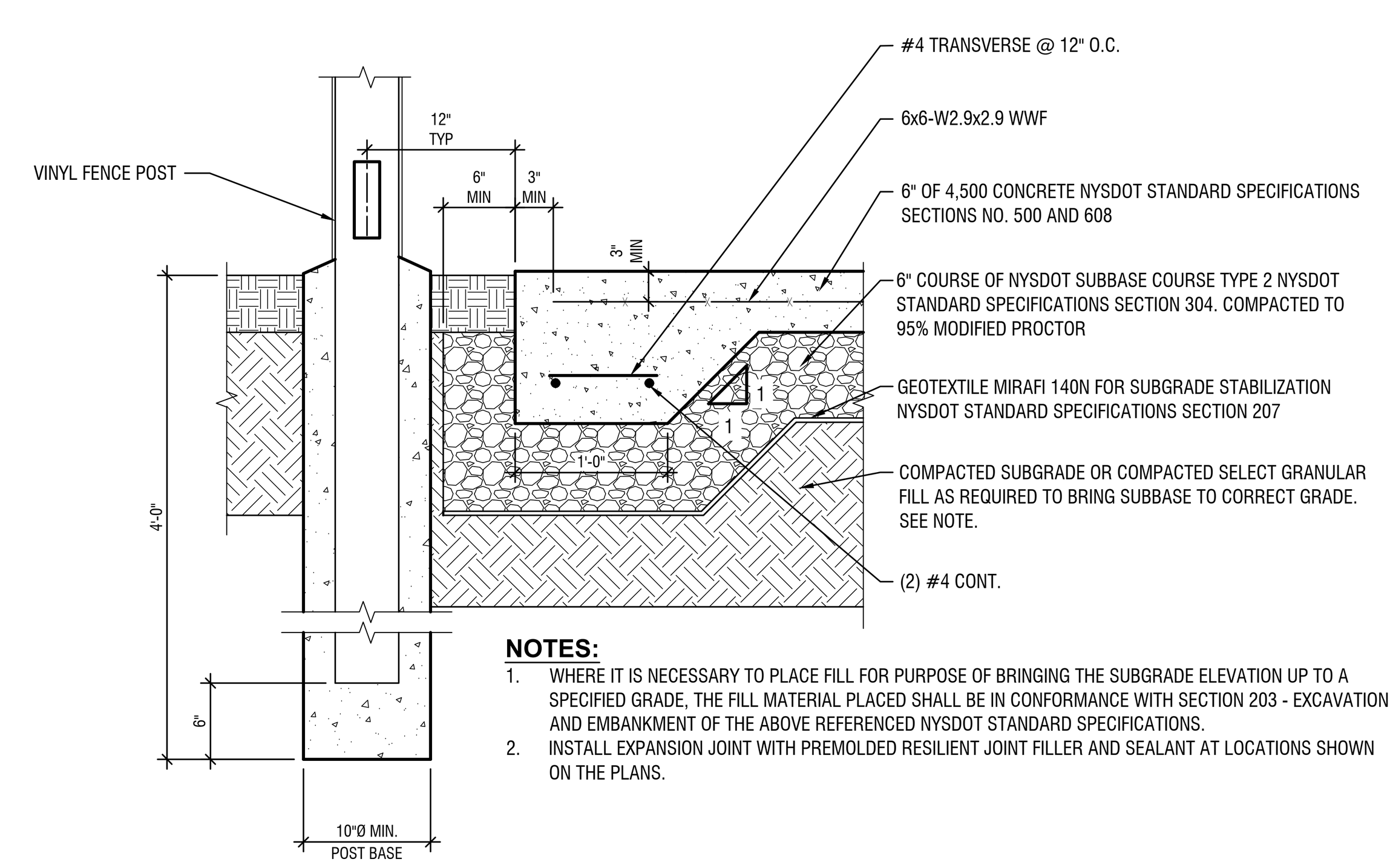
11/5/2024 12:15:31 PM
B:\SLDRAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide 4C Elec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\2233600 THA A103 ROOF PLAN.dwg



4 / A201 **FENCE SECTION**
1 1/2" = 1'-0"



3 / A201 **FENCE ELEVATION**
1 1/2" = 1'-0"



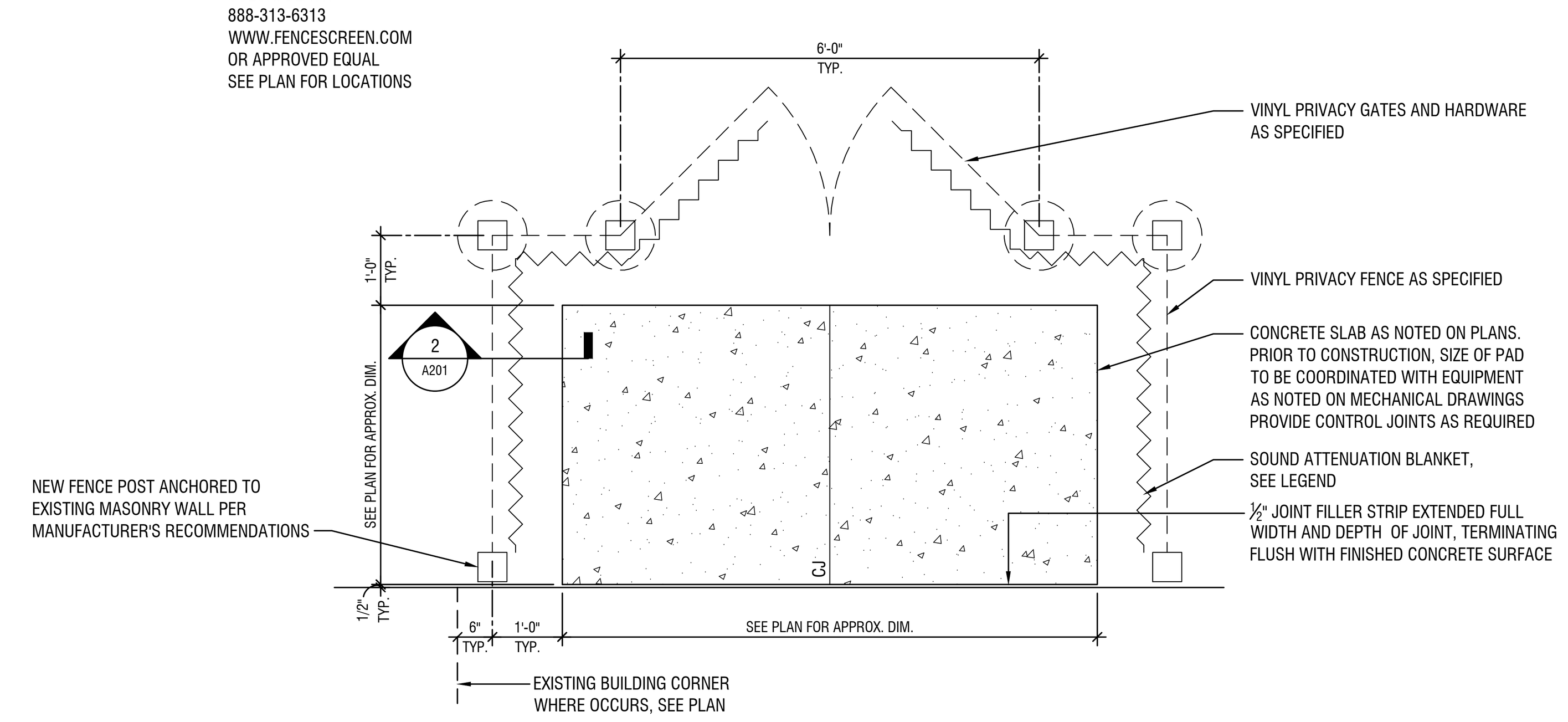
NOTES:

1. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203 - EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
2. INSTALL EXPANSION JOINT WITH PREMOLDED RESILIENT JOINT FILLER AND SEALANT AT LOCATIONS SHOWN ON THE PLANS.

2 / A201 **SECTION @ CONCRETE PAD**
SCALE: NTS

LEGEND

SOUND ATTENUATION BLANKET BASIS OF DESIGN:
SOUNDBLOCK ACOUSTIC FENCE PANELS
MODEL #850 SERIES SOUNDBLOCK BY FENCESCREEN, INC.
COLOR: BLACK
888-313-6313
WWW.FENCESCREEN.COM
OR APPROVED EQUAL
SEE PLAN FOR LOCATIONS



1 / A201 **ENLARGED PLAN MECHANICAL EQUIPMENT PAD**
SCALE: 1/2" = 1'-0"

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:

Revisions

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

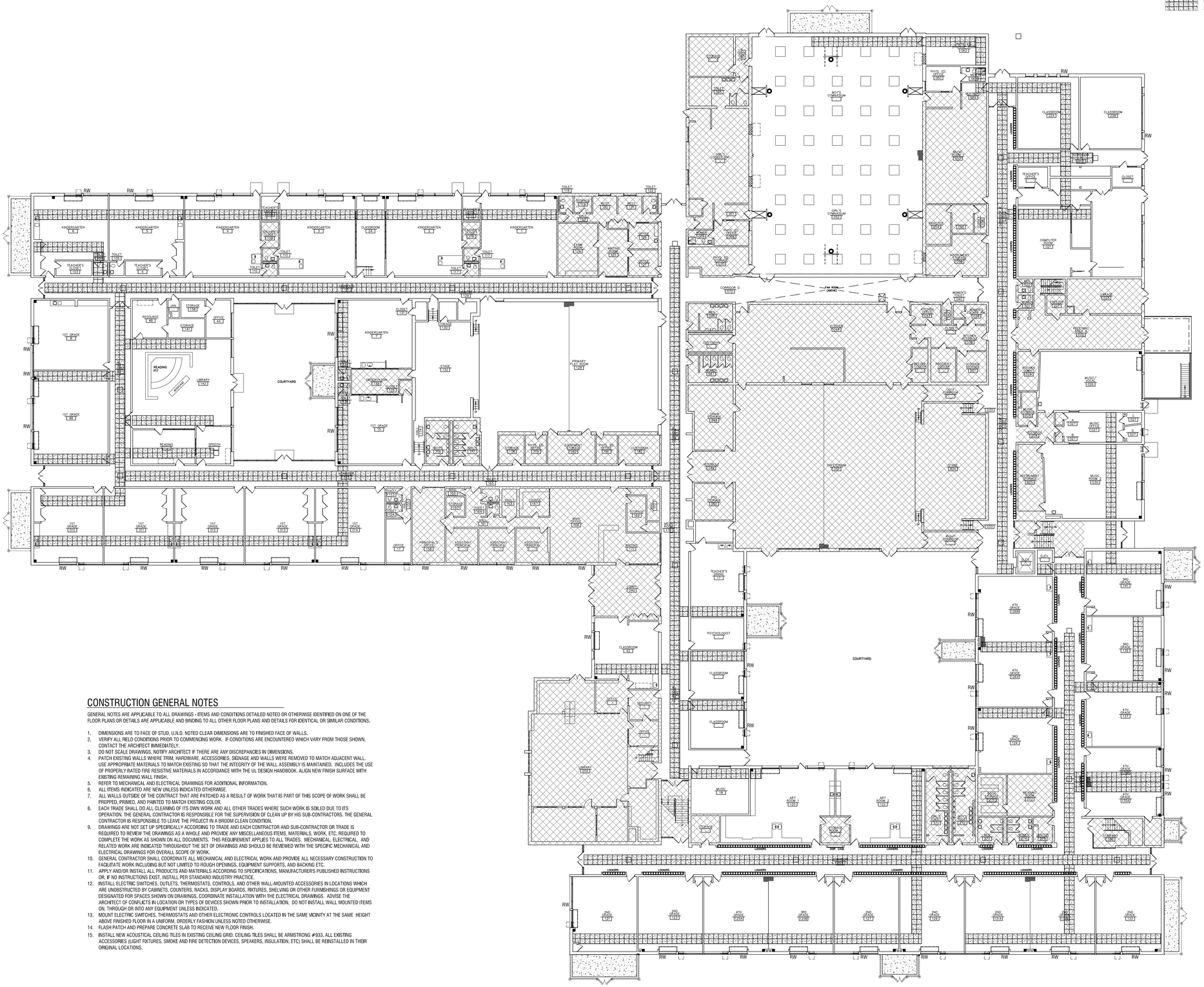
REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: **DETAILS**

DRAWING NUMBER: **A201**



CONSTRUCTION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. DIMENSIONS ARE TO FACE OF STUD, U.N.O. NOTED CLEAR DIMENSIONS ARE TO FINISHED FACE OF WALLS.
2. VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCING WORK. IF CONDITIONS ARE ENCOUNTERED WHICH VARY FROM THOSE SHOWN, CONTACT THE ARCHITECT IMMEDIATELY.
3. DO NOT SCALE DRAWINGS, NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES IN DIMENSIONS.
4. PATCH EXISTING WALLS WHERE TRIM, HARDWARE, ACCESSORIES, SIGNAGE AND WALLS WERE REMOVED TO MATCH ADJACENT WALL. USE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. INCLUDES THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS IN ACCORDANCE WITH THE UL DESIGN HANDBOOK. ALIGN NEW FINISH SURFACE WITH EXISTING REMAINING WALL FINISH.
5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL ITEMS INDICATED ARE NEW UNLESS INDICATED OTHERWISE.
7. ALL WALLS OUTSIDE OF THE CONTRACT THAT ARE PATCHED AS A RESULT OF WORK THAT IS PART OF THIS SCOPE OF WORK SHALL BE PREPPED, PRIMED, AND PAINTED TO MATCH EXISTING COLOR.
8. EACH TRADE SHALL DO ALL CLEANING OF ITS OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO ITS OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUB-CONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
9. DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISCELLANEOUS ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. MECHANICAL, ELECTRICAL, AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MECHANICAL AND ELECTRICAL DRAWINGS FOR OVERALL SCOPE OF WORK.
10. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING ETC.
11. APPLY AND/OR INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO SPECIFICATIONS, MANUFACTURER'S PUBLISHED INSTRUCTIONS OR, IF NO INSTRUCTIONS EXIST, INSTALL PER STANDARD INDUSTRY PRACTICE.
12. INSTALL ELECTRIC SWITCHES, OUTLETS, THERMOSTATS, CONTROLS, AND OTHER WALL-MOUNTED ACCESSORIES IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, DISPLAY BOARDS, FIXTURES, SHELVING OR OTHER FURNISHINGS OR EQUIPMENT DESIGNATED FOR SPACES SHOWN ON DRAWINGS. COORDINATE INSTALLATION WITH THE ELECTRICAL DRAWINGS. ADVISE THE ARCHITECT OF CONFLICTS IN LOCATION OR TYPES OF DEVICES SHOWN PRIOR TO INSTALLATION. DO NOT INSTALL WALL MOUNTED ITEMS ON, THROUGH OR INTO ANY EQUIPMENT UNLESS INDICATED.
13. MOUNT ELECTRIC SWITCHES, THERMOSTATS AND OTHER ELECTRONIC CONTROLS LOCATED IN THE SAME VICINITY AT THE SAME HEIGHT ABOVE FINISHED FLOOR IN A UNIFORM, ORDERLY FASHION UNLESS NOTED OTHERWISE.
14. FLASH PATCH AND PREPARE CONCRETE SLAB TO RECEIVE NEW FLOOR FINISH.
15. INSTALL NEW ACOUSTICAL CEILING TILES IN EXISTING CEILING GRID. CEILING TILES SHALL BE ARMSTRONG #933, ALL EXISTING ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, INSULATION, ETC) SHALL BE REINSTALLED IN THEIR ORIGINAL LOCATIONS.

1 A301 CONSTRUCTION FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

LEGEND

NO WORK IN THIS AREA

NEW ACOUSTICAL CLG. TILES INSTALLED IN EXISTING CEILING GRID SEE NOTE #15

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION
EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600
DRAWN BY: JR
REVIEWED BY: PM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

CONSTRUCTION FIRST FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER:

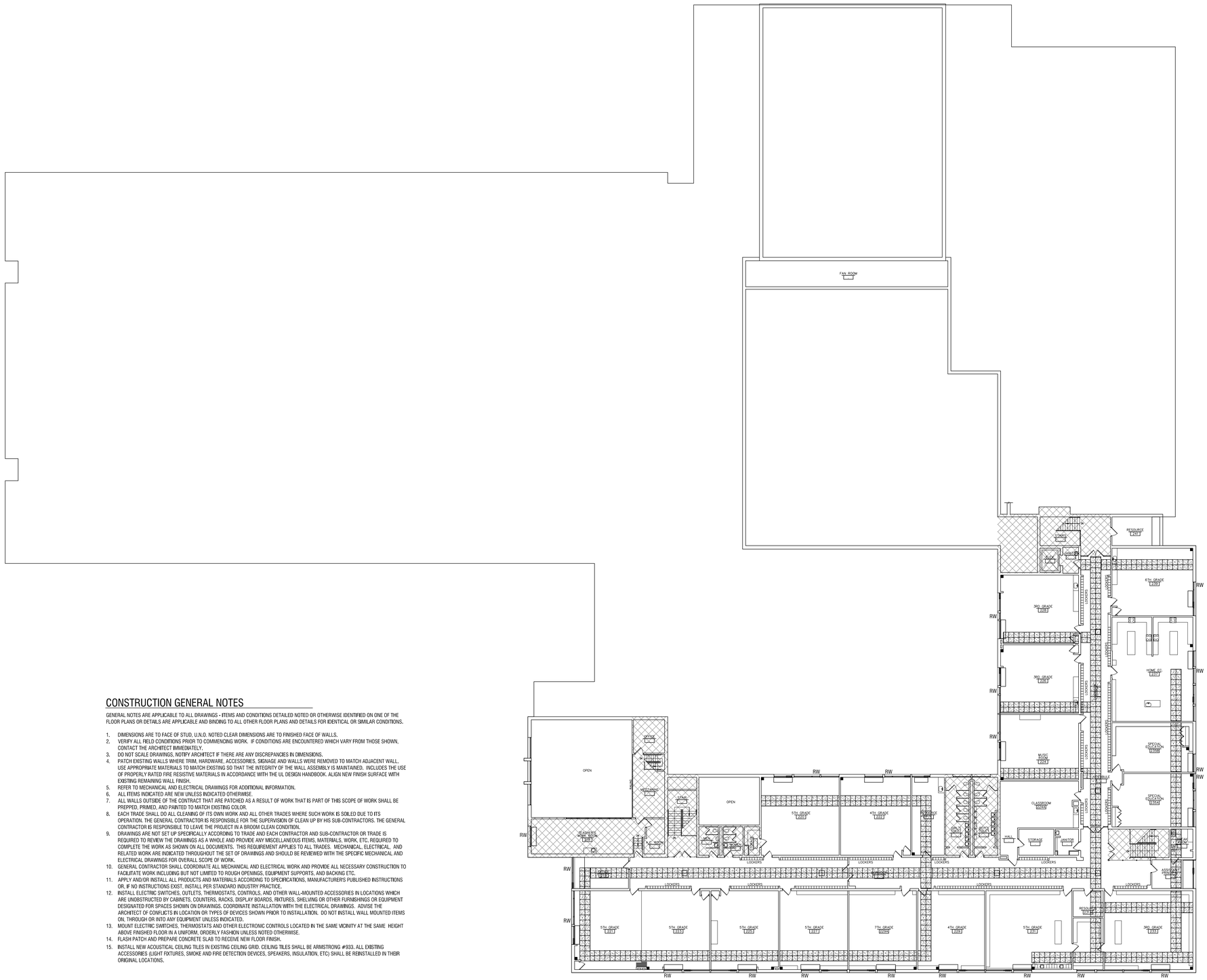
A301

11/5/2024 12:22:28 PM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Exec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\2233600 THA A301 FIRST FLOOR RCP.dwg

LEGEND

NO WORK IN THIS AREA

NEW ACOUSTICAL CLG. TILES INSTALLED IN EXISTING CEILING GRID, SEE NOTE #15



CONSTRUCTION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. DIMENSIONS ARE TO FACE OF STUD, U.N.O. NOTED CLEAR DIMENSIONS ARE TO FINISHED FACE OF WALLS.
2. VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCING WORK. IF CONDITIONS ARE ENCOUNTERED WHICH VARY FROM THOSE SHOWN, CONTACT THE ARCHITECT IMMEDIATELY.
3. DO NOT SCALE DRAWINGS, NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES IN DIMENSIONS.
4. PATCH EXISTING WALLS WHERE TRIM, HARDWARE, ACCESSORIES, SIGNAGE AND WALLS WERE REMOVED TO MATCH ADJACENT WALL. USE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. INCLUDES THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS IN ACCORDANCE WITH THE UL DESIGN HANDBOOK. ALIGN NEW FINISH SURFACE WITH EXISTING REMAINING WALL FINISH.
5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL ITEMS INDICATED ARE NEW UNLESS INDICATED OTHERWISE.
7. ALL WALLS OUTSIDE OF THE CONTRACT THAT ARE PATCHED AS A RESULT OF WORK THAT IS PART OF THIS SCOPE OF WORK SHALL BE PREPPED, PRIMED, AND PAINTED TO MATCH EXISTING COLOR.
8. EACH TRADE SHALL DO ALL CLEANING OF ITS OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO ITS OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUB-CONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
9. DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISCELLANEOUS ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. MECHANICAL, ELECTRICAL, AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MECHANICAL AND ELECTRICAL DRAWINGS FOR OVERALL SCOPE OF WORK.
10. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING ETC.
11. APPLY AND/OR INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO SPECIFICATIONS, MANUFACTURER'S PUBLISHED INSTRUCTIONS OR, IF NO INSTRUCTIONS EXIST, INSTALL PER STANDARD INDUSTRY PRACTICE.
12. INSTALL ELECTRIC SWITCHES, OUTLETS, THERMOSTATS, CONTROLS, AND OTHER WALL-MOUNTED ACCESSORIES IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, DISPLAY BOARDS, FIXTURES, SHELVING OR OTHER FURNISHINGS OR EQUIPMENT DESIGNATED FOR SPACES SHOWN ON DRAWINGS. COORDINATE INSTALLATION WITH THE ELECTRICAL DRAWINGS. ADVISE THE ARCHITECT OF CONFLICTS IN LOCATION OR TYPES OF DEVICES SHOWN PRIOR TO INSTALLATION. DO NOT INSTALL WALL MOUNTED ITEMS ON, THROUGH OR INTO ANY EQUIPMENT UNLESS INDICATED.
13. MOUNT ELECTRIC SWITCHES, THERMOSTATS AND OTHER ELECTRONIC CONTROLS LOCATED IN THE SAME VICINITY AT THE SAME HEIGHT ABOVE FINISHED FLOOR IN A UNIFORM, ORDERLY FASHION UNLESS NOTED OTHERWISE.
14. FLASH PATCH AND PREPARE CONCRETE SLAB TO RECEIVE NEW FLOOR FINISH.
15. INSTALL NEW ACOUSTICAL CEILING TILES IN EXISTING CEILING GRID. CEILING TILES SHALL BE ARMSTRONG #933. ALL EXISTING ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, INSULATION, ETC) SHALL BE REINSTALLED IN THEIR ORIGINAL LOCATIONS.

1 / A102 CONSTRUCTION SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

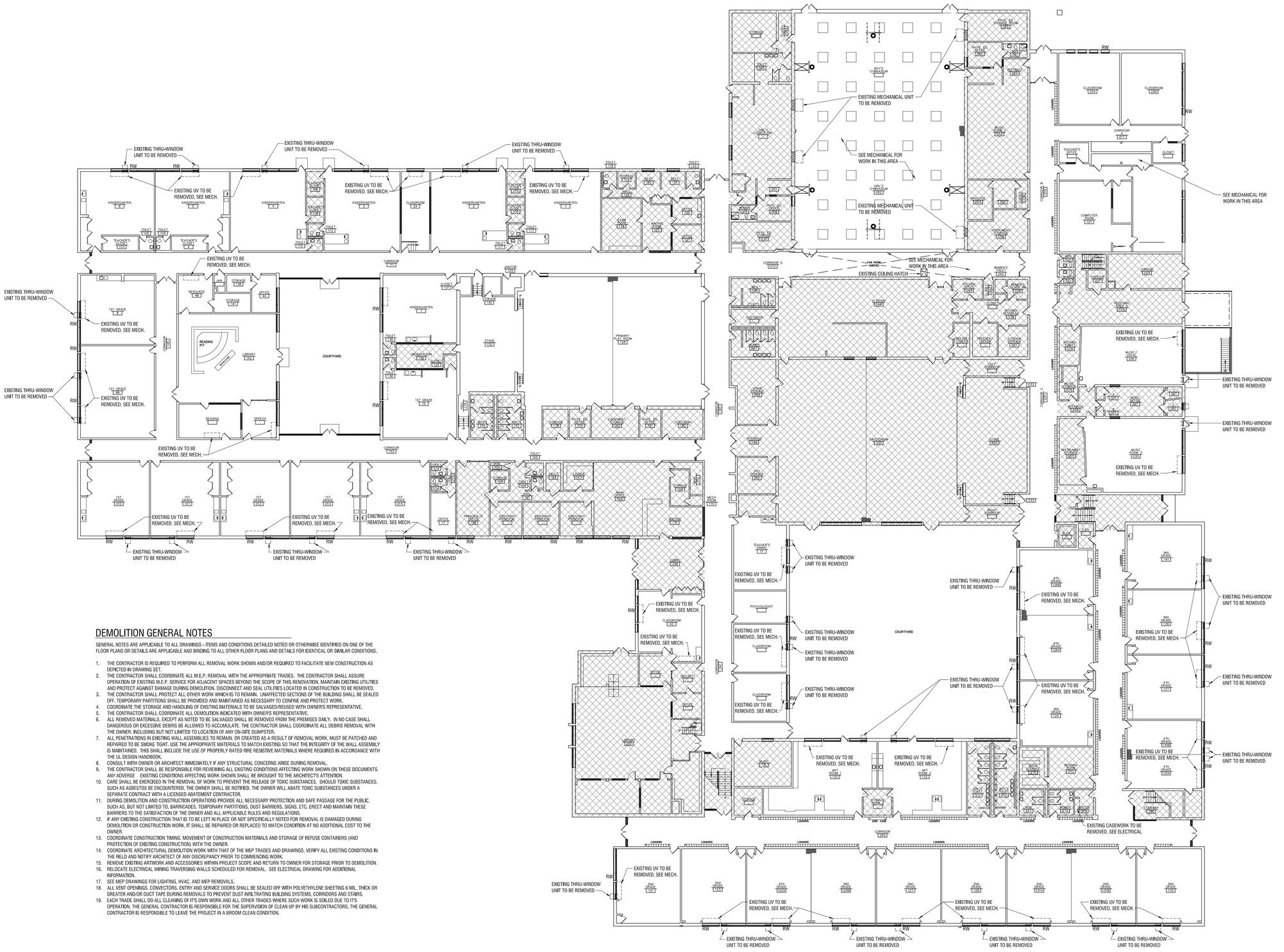
DRAWING NAME:

CONSTRUCTION SECOND FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER:

A302

11/5/2024 12:28:45 PM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Exec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\2233600 THA A302 SECOND FLOOR RCP.dwg



DEMOLITION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. THE CONTRACTOR IS REQUIRED TO PERFORM ALL REMOVAL WORK SHOWN AND/OR REQUIRED TO FACILITATE NEW CONSTRUCTION AS DEPICTED IN DRAWING SET.
2. THE CONTRACTOR SHALL COORDINATE ALL M.E.P. REMOVAL WITH THE APPROPRIATE TRADES. THE CONTRACTOR SHALL ASSURE OPERATION OF EXISTING M.E.P. SERVICE FOR ADJACENT SPACES BEYOND THE SCOPE OF THIS RENOVATION. MAINTAIN EXISTING UTILITIES AND PROTECT AGAINST DAMAGE DURING DEMOLITION. DISCONNECT AND SEAL UTILITIES LOCATED IN CONSTRUCTION TO BE REMOVED.
3. THE CONTRACTOR SHALL PROTECT ALL OTHER WORK WHICH IS TO REMAIN. UNAFFECTED SECTIONS OF THE BUILDING SHALL BE SEALED OFF. TEMPORARY PARTITIONS SHALL BE PROVIDED AND MAINTAINED AS NECESSARY TO CONFINE AND PROTECT WORK.
4. COORDINATE THE STORAGE AND HANDLING OF EXISTING MATERIALS TO BE SALVAGED/REUSED WITH OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION INDICATED WITH OWNER'S REPRESENTATIVE.
6. ALL REMOVED MATERIALS, EXCEPT AS NOTED TO BE SALVAGED SHALL BE REMOVED FROM THE PREMISES DAILY. IN NO CASE SHALL DANGEROUS OR EXCESSIVE DEBRIS BE ALLOWED TO ACCUMULATE. THE CONTRACTOR SHALL COORDINATE ALL DEBRIS REMOVAL WITH THE OWNER, INCLUDING BUT NOT LIMITED TO LOCATION OF ANY ON-SITE DUMPSTER.
7. ALL PENETRATIONS IN EXISTING WALL ASSEMBLIES TO REMAIN, OR CREATED AS A RESULT OF REMOVAL WORK, MUST BE PATCHED AND REPAIRED TO BE SMOKE TIGHT. USE THE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. THIS SHALL INCLUDE THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS WHERE REQUIRED IN ACCORDANCE WITH THE UL DESIGN HANDBOOK.
8. CONSULT WITH OWNER OR ARCHITECT IMMEDIATELY IF ANY STRUCTURAL CONCERNS ARISE DURING REMOVAL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING CONDITIONS AFFECTING WORK SHOWN ON THESE DOCUMENTS. ANY ADVERSE EXISTING CONDITIONS AFFECTING WORK SHOWN SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION.
10. CARE SHALL BE EXERCISED IN THE REMOVAL OF WORK TO PREVENT THE RELEASE OF TOXIC SUBSTANCES. SHOULD TOXIC SUBSTANCES, SUCH AS ASBESTOS BE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED, THE OWNER WILL ABATE TOXIC SUBSTANCES UNDER A SEPARATE CONTRACT WITH A LICENSED ABATEMENT CONTRACTOR.
11. DURING DEMOLITION AND CONSTRUCTION OPERATIONS PROVIDE ALL NECESSARY PROTECTION AND SAFE PASSAGE FOR THE PUBLIC, SUCH AS, BUT NOT LIMITED TO, BARRICADES, TEMPORARY PARTITIONS, DUST BARRIERS, SIGNS, ETC. ERECT AND MAINTAIN THESE BARRIERS TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE RULES AND REGULATIONS.
12. IF ANY EXISTING CONSTRUCTION THAT IS TO BE LEFT IN PLACE OR NOT SPECIFICALLY NOTED FOR REMOVAL IS DAMAGED DURING DEMOLITION OR CONSTRUCTION WORK, IT SHALL BE REPAIRED OR REPLACED TO MATCH CONDITION AT NO ADDITIONAL COST TO THE OWNER.
13. COORDINATE CONSTRUCTION TIMING, MOVEMENT OF CONSTRUCTION MATERIALS AND STORAGE OF REFUSE CONTAINERS (AND PROTECTION OF EXISTING CONSTRUCTION) WITH THE OWNER.
14. COORDINATE ARCHITECTURAL DEMOLITION WORK WITH THAT OF THE MEP TRADES AND DRAWINGS, VERIFY ALL EXISTING CONDITIONS IN THE RIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO COMMENCING WORK.
15. REMOVE EXISTING ARTWORK AND ACCESSORIES WITHIN PROJECT SCOPE AND RETURN TO OWNER FOR STORAGE PRIOR TO DEMOLITION.
16. RELOCATE ELECTRICAL WIRING TRAVERSING WALLS SCHEDULED FOR REMOVAL. SEE ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
17. SEE MEP DRAWINGS FOR LIGHTING, HVAC, AND MEP REMOVALS.
18. ALL VENT OPENINGS, CONVECTORS, ENTRY AND SERVICE DOORS SHALL BE SEALED OFF WITH POLYETHYLENE SHEETING 6 MIL. THICK OR GREATER AND/OR DUCT TAPE DURING REMOVALS TO PREVENT DUST INFILTRATING BUILDING SYSTEMS, CORRIDORS AND STAIRS.
19. EACH TRADE SHALL DO ALL CLEANING OF IT'S OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO IT'S OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUBCONTRACTORS, THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.

1 AD101 DEMOLITION FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

LEGEND

NO WORK IN THIS AREA

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION
EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017676
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600
DRAWN BY: JR
REVIEWED BY: PM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

DEMOLITION FIRST FLOOR PLAN

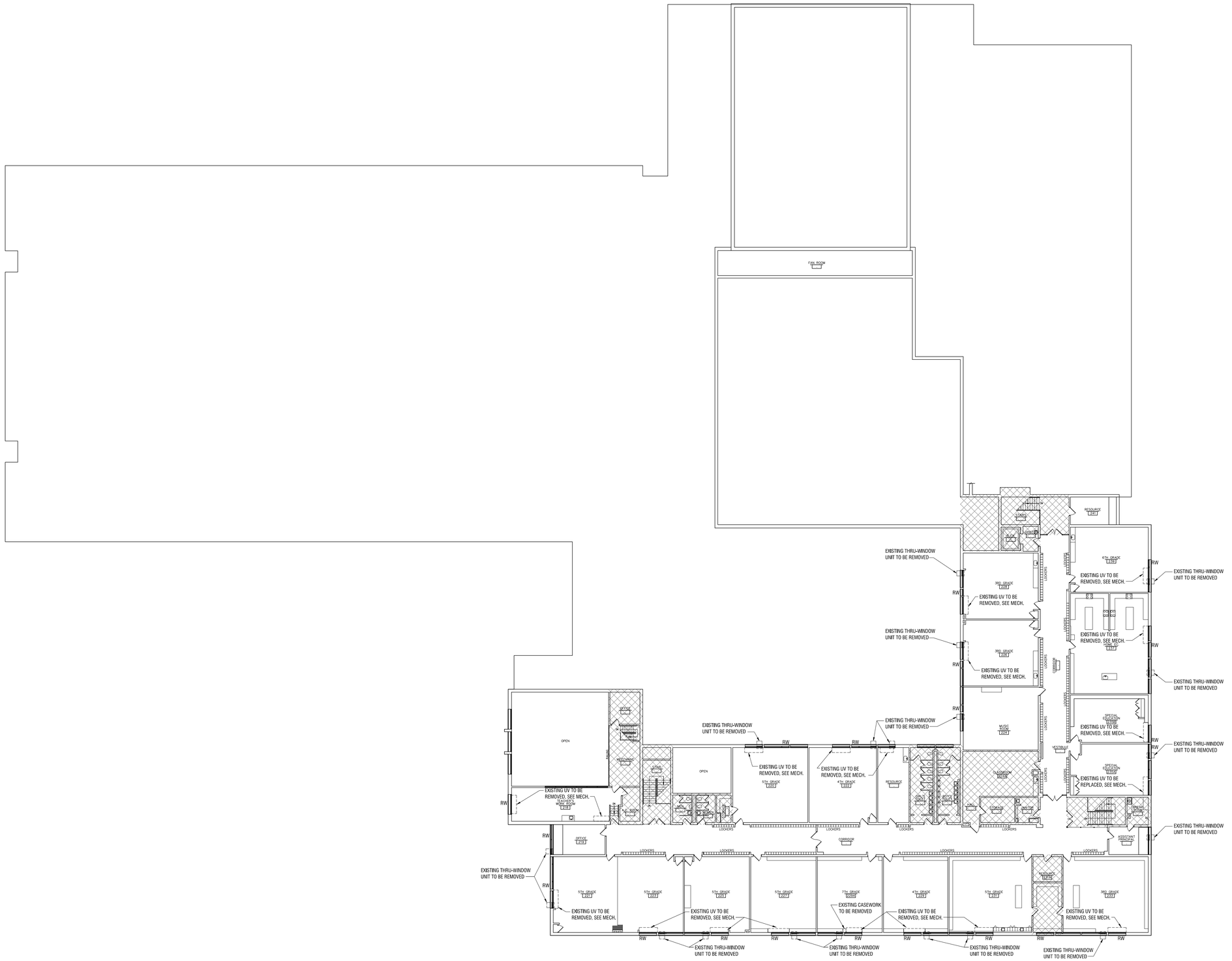
DRAWING NUMBER:

AD101

11/5/2024 12:09:46 PM
B:\05.0RAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AE Elec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\2233600 THA A101 FIRST FLOOR PLAN.dwg

LEGEND

NO WORK IN THIS AREA



1 AD102 DEMOLITION SECOND FLOOR PLAN

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

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

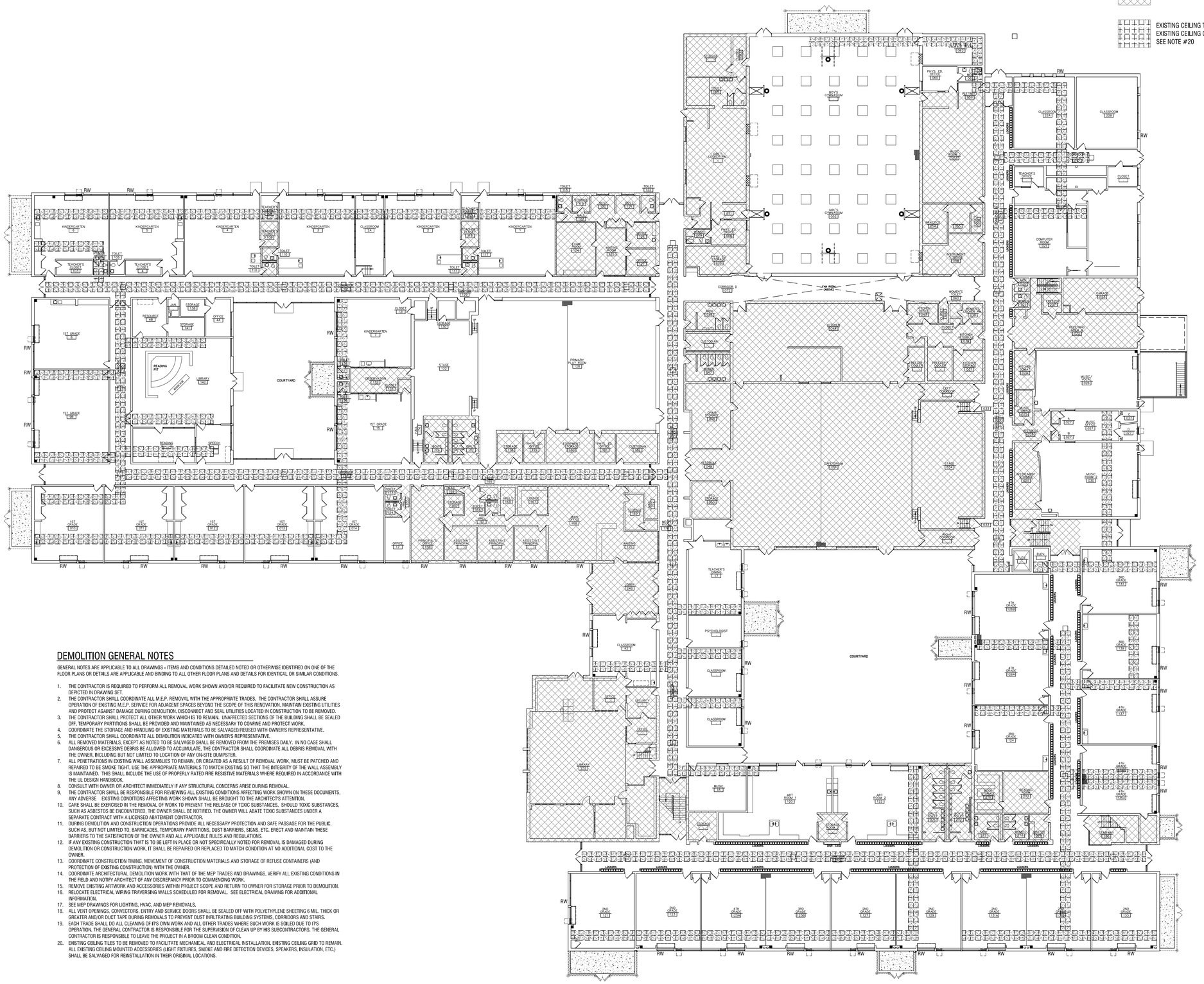
ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: DEMOLITION SECOND FLOOR PLAN

DRAWING NUMBER: AD102

11/5/2024 12:14:43 PM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\2233600 THA A102 SECOND FLOOR PLAN.dwg



DEMOLITION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. THE CONTRACTOR IS REQUIRED TO PERFORM ALL REMOVAL WORK SHOWN AND/OR REQUIRED TO FACILITATE NEW CONSTRUCTION AS DEPICTED IN DRAWING SET.
2. THE CONTRACTOR SHALL COORDINATE ALL M.E.P. REMOVAL WITH THE APPROPRIATE TRADES. THE CONTRACTOR SHALL ASSURE OPERATION OF EXISTING M.E.P. SERVICE FOR ADJACENT SPACES BEYOND THE SCOPE OF THIS RENOVATION, MAINTAIN EXISTING UTILITIES AND PROTECT AGAINST DAMAGE DURING DEMOLITION. DISCONNECT AND SEAL UTILITIES LOCATED IN CONSTRUCTION TO BE REMOVED.
3. THE CONTRACTOR SHALL PROTECT ALL OTHER WORK WHICH IS TO REMAIN. UNAFFECTED SECTIONS OF THE BUILDING SHALL BE SEALED OFF. TEMPORARY PARTITIONS SHALL BE PROVIDED AND MAINTAINED AS NECESSARY TO CONFINE AND PROTECT WORK.
4. COORDINATE THE STORAGE AND HANDLING OF EXISTING MATERIALS TO BE SALVAGED/REUSED WITH OWNERS REPRESENTATIVE.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION INDICATED WITH OWNER'S REPRESENTATIVE.
6. ALL REMOVED MATERIALS, EXCEPT AS NOTED TO BE SALVAGED SHALL BE REMOVED FROM THE PREMISES DAILY. IN NO CASE SHALL DANGEROUS OR EXCESSIVE DEBRIS BE ALLOWED TO ACCUMULATE. THE CONTRACTOR SHALL COORDINATE ALL DEBRIS REMOVAL WITH THE OWNER, INCLUDING BUT NOT LIMITED TO LOCATION OF ANY ON-SITE DUMPSTER.
7. ALL PENETRATIONS IN EXISTING WALL ASSEMBLIES TO REMAIN, OR CREATED AS A RESULT OF REMOVAL WORK, MUST BE PATCHED AND REPAIRED TO BE SMOKE TIGHT. USE THE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. THIS SHALL INCLUDE THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS WHERE REQUIRED IN ACCORDANCE WITH THE UL DESIGN HANDBOOK.
8. CONSULT WITH OWNER OR ARCHITECT IMMEDIATELY IF ANY STRUCTURAL CONCERNS ARISE DURING REMOVAL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING CONDITIONS AFFECTING WORK SHOWN ON THESE DOCUMENTS. ANY ADVERSE EXISTING CONDITIONS AFFECTING WORK SHOWN SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
10. CARE SHALL BE EXERCISED IN THE REMOVAL OF WORK TO PREVENT THE RELEASE OF TOXIC SUBSTANCES. SHOULD TOXIC SUBSTANCES, SUCH AS ASBESTOS BE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED. THE OWNER WILL ABATE TOXIC SUBSTANCES UNDER A SEPARATE CONTRACT WITH A LICENSED ABATEMENT CONTRACTOR.
11. DURING DEMOLITION AND CONSTRUCTION OPERATIONS PROVIDE ALL NECESSARY PROTECTION AND SAFE PASSAGE FOR THE PUBLIC, SUCH AS, BUT NOT LIMITED TO, BARRICADES, TEMPORARY PARTITIONS, DUST BARRIERS, SIGNS, ETC. ERECT AND MAINTAIN THESE BARRIERS TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE RULES AND REGULATIONS.
12. IF ANY EXISTING CONSTRUCTION THAT IS TO BE LEFT IN PLACE OR NOT SPECIFICALLY NOTED FOR REMOVAL IS DAMAGED DURING DEMOLITION OR CONSTRUCTION WORK, IT SHALL BE REPAIRED OR REPLACED TO MATCH CONDITION AT NO ADDITIONAL COST TO THE OWNER.
13. COORDINATE CONSTRUCTION TIMING, MOVEMENT OF CONSTRUCTION MATERIALS AND STORAGE OF REFUSE CONTAINERS (AND PROTECTION OF EXISTING CONDITIONS) WITH THE OWNER.
14. COORDINATE ARCHITECTURAL DEMOLITION WORK WITH THAT OF THE MEP TRADES AND DRAWINGS. VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO COMMENCING WORK.
15. REMOVE EXISTING ARTWORK AND ACCESSORIES WITHIN PROJECT SCOPE AND RETURN TO OWNER FOR STORAGE PRIOR TO DEMOLITION.
16. RELOCATE ELECTRICAL WIRING TRAVERSING WALLS SCHEDULED FOR REMOVAL. SEE ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
17. SEE MEP DRAWINGS FOR LIGHTING, HVAC, AND MEP REMOVALS.
18. ALL VENT OPENINGS, CONVECTORS, ENTRY AND SERVICE DOORS SHALL BE SEALED OFF WITH POLYETHYLENE SHEETING 6 MIL. THICK OR GREATER AND/OR DUCT TAPE DURING REMOVALS TO PREVENT DUST INFILTRATING BUILDING SYSTEMS, CORRIDORS AND STAIRS.
19. EACH TRADE SHALL DO ALL CLEANING OF IT'S OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO IT'S OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUBCONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
20. EXISTING CEILING TILES TO BE REMOVED TO FACILITATE MECHANICAL AND ELECTRICAL INSTALLATION. EXISTING CEILING GRID TO REMAIN. ALL EXISTING CEILING MOUNTED ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, INSULATION, ETC.) SHALL BE SALVAGED FOR REINSTALLATION IN THEIR ORIGINAL LOCATIONS.

1 AD301 DEMOLITION FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

LEGEND

NO WORK IN THIS AREA

EXISTING CEILING TILES TO BE REMOVED. EXISTING CEILING GRID TO REMAIN. SEE NOTE #20

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION
EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600
DRAWN BY: JR
REVIEWED BY: PM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

DEMOLITION FIRST FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER:

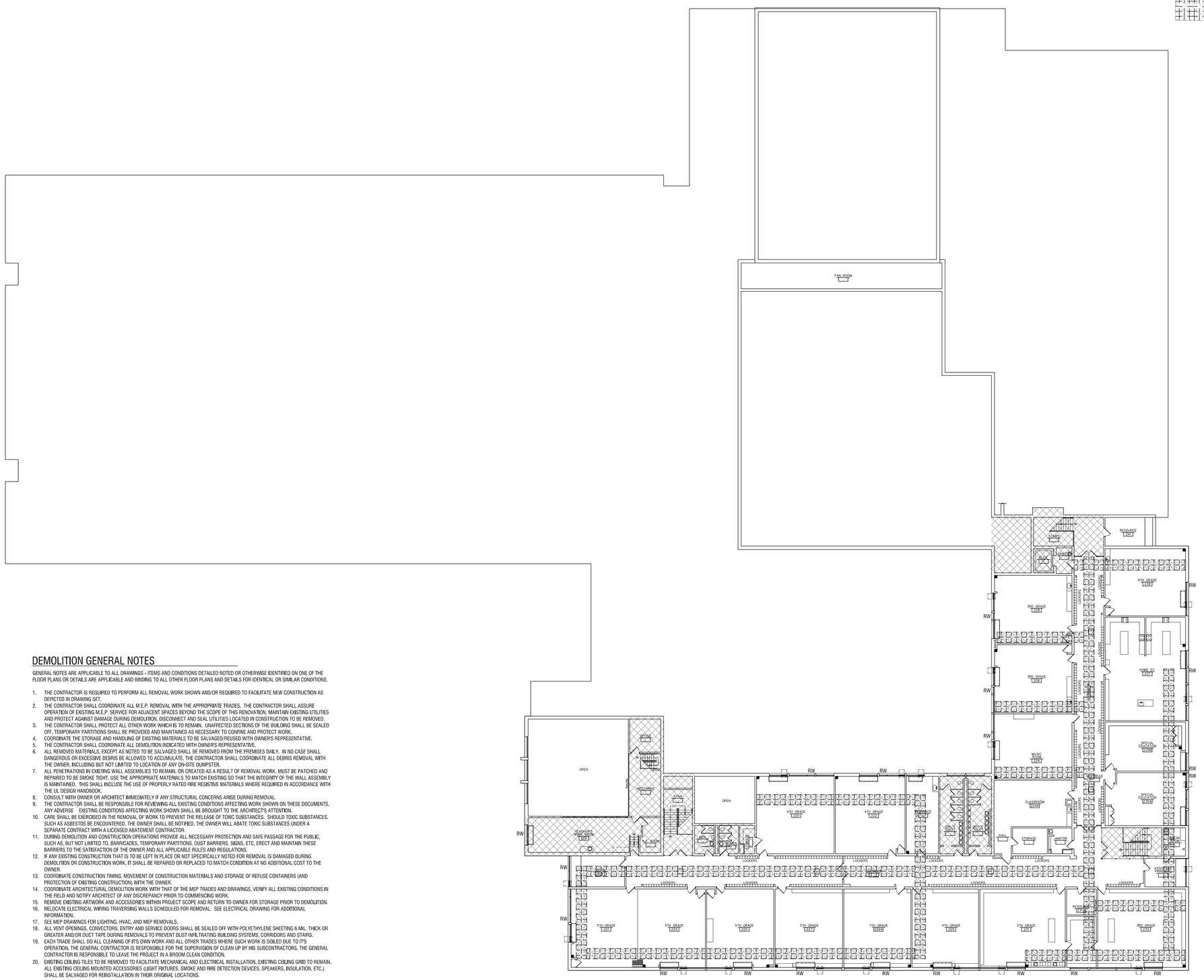
AD301

11/5/2024 12:26:38 PM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\2233600 THA A301 FIRST FLOOR RCP.dwg

LEGEND

NO WORK IN THIS AREA

EXISTING ACOUSTICAL TILES TO BE REMOVED, EXISTING CEILING GRID TO REMAIN, SEE NOTE #20



DEMOLITION GENERAL NOTES

GENERAL NOTES ARE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE FLOOR PLANS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER FLOOR PLANS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. THE CONTRACTOR IS REQUIRED TO PERFORM ALL REMOVAL WORK SHOWN AND/OR REQUIRED TO FACILITATE NEW CONSTRUCTION AS DEPICTED IN DRAWING SET.
2. THE CONTRACTOR SHALL COORDINATE ALL M.E.P. REMOVAL WITH THE APPROPRIATE TRADES. THE CONTRACTOR SHALL ASSURE OPERATION OF EXISTING M.E.P. SERVICE FOR ADJACENT SPACES BEYOND THE SCOPE OF THIS RENOVATION, MAINTAIN EXISTING UTILITIES AND PROTECT AGAINST DAMAGE DURING DEMOLITION. DISCONNECT AND SEAL UTILITIES LOCATED IN CONSTRUCTION TO BE REMOVED.
3. THE CONTRACTOR SHALL PROTECT ALL OTHER WORK WHICH IS TO REMAIN. UNAFFECTED SECTIONS OF THE BUILDING SHALL BE SEALED OFF. TEMPORARY PARTITIONS SHALL BE PROVIDED AND MAINTAINED AS NECESSARY TO CONFINE AND PROTECT WORK.
4. COORDINATE THE STORAGE AND HANDLING OF EXISTING MATERIALS TO BE SALVAGED/REUSED WITH OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION INDICATED WITH OWNER'S REPRESENTATIVE.
6. ALL REMOVED MATERIALS, EXCEPT AS NOTED TO BE SALVAGED SHALL BE REMOVED FROM THE PREMISES DAILY. IN NO CASE SHALL DANGEROUS OR EXCESSIVE DEBRIS BE ALLOWED TO ACCUMULATE. THE CONTRACTOR SHALL COORDINATE ALL DEBRIS REMOVAL WITH THE OWNER, INCLUDING BUT NOT LIMITED TO LOCATION OF ANY ON-SITE DUMPSTER.
7. ALL PENETRATIONS IN EXISTING WALL ASSEMBLIES TO REMAIN, OR CREATED AS A RESULT OF REMOVAL WORK, MUST BE PATCHED AND REPAIRED TO BE SMOKE TIGHT, USE THE APPROPRIATE MATERIALS TO MATCH EXISTING SO THAT THE INTEGRITY OF THE WALL ASSEMBLY IS MAINTAINED. THIS SHALL INCLUDE THE USE OF PROPERLY RATED FIRE RESISTIVE MATERIALS WHERE REQUIRED IN ACCORDANCE WITH THE UL DESIGN HANDBOOK.
8. CONSULT WITH OWNER OR ARCHITECT IMMEDIATELY IF ANY STRUCTURAL CONCERNS ARISE DURING REMOVAL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING CONDITIONS AFFECTING WORK SHOWN ON THESE DOCUMENTS. ANY ADVERSE EXISTING CONDITIONS AFFECTING WORK SHOWN SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
10. CARE SHALL BE EXERCISED IN THE REMOVAL OF WORK TO PREVENT THE RELEASE OF TOXIC SUBSTANCES. SHOULD TOXIC SUBSTANCES, SUCH AS ASBESTOS BE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED. THE OWNER WILL ABATE TOXIC SUBSTANCES UNDER A SEPARATE CONTRACT WITH A LICENSED ABATEMENT CONTRACTOR.
11. DURING DEMOLITION AND CONSTRUCTION OPERATIONS PROVIDE ALL NECESSARY PROTECTION AND SAFE PASSAGE FOR THE PUBLIC, SUCH AS, BUT NOT LIMITED TO, BARRICADES, TEMPORARY PARTITIONS, DUST BARRIERS, SIGNS, ETC. ERECT AND MAINTAIN THESE BARRIERS TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE RULES AND REGULATIONS.
12. IF ANY EXISTING CONSTRUCTION THAT IS TO BE LEFT IN PLACE OR NOT SPECIFICALLY NOTED FOR REMOVAL IS DAMAGED DURING DEMOLITION OR CONSTRUCTION WORK, IT SHALL BE REPAIRED OR REPLACED TO MATCH CONDITION AT NO ADDITIONAL COST TO THE OWNER.
13. COORDINATE CONSTRUCTION TIMING, MOVEMENT OF CONSTRUCTION MATERIALS AND STORAGE OF REFUSE CONTAINERS (AND PROTECTION OF EXISTING CONSTRUCTION) WITH THE OWNER.
14. COORDINATE ARCHITECTURAL DEMOLITION WORK WITH THAT OF THE MEP TRADES AND DRAWINGS, VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO COMMENCING WORK.
15. REMOVE EXISTING ARTWORK AND ACCESSORIES WITHIN PROJECT SCOPE AND RETURN TO OWNER FOR STORAGE PRIOR TO DEMOLITION.
16. RELOCATE ELECTRICAL WIRING TRAVERSING WALLS SCHEDULED FOR REMOVAL. SEE ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
17. SEE MEP DRAWINGS FOR LIGHTING, HVAC, AND MEP REMOVALS.
18. ALL VENT OPENINGS, CONVECTORS, ENTRY AND SERVICE DOORS SHALL BE SEALED OFF WITH POLYETHYLENE SHEETING 6 MIL. THICK OR GREATER AND/OR DUCT TAPE DURING REMOVALS TO PREVENT DUST INFILTRATING BUILDING SYSTEMS, CORRIDORS AND STAIRS.
19. EACH TRADE SHALL DO ALL CLEANING OF IT'S OWN WORK AND ALL OTHER TRADES WHERE SUCH WORK IS SOILED DUE TO IT'S OPERATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF CLEAN UP BY HIS SUBCONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO LEAVE THE PROJECT IN A BROOM CLEAN CONDITION.
20. EXISTING CEILING TILES TO BE REMOVED TO FACILITATE MECHANICAL AND ELECTRICAL INSTALLATION. EXISTING CEILING GRID TO REMAIN. ALL EXISTING CEILING MOUNTED ACCESSORIES (LIGHT FIXTURES, SMOKE AND FIRE DETECTION DEVICES, SPEAKERS, INSULATION, ETC.) SHALL BE SALVAGED FOR REINSTALLATION IN THEIR ORIGINAL LOCATIONS.

1 AD302 DEMOLITION SECOND FLOOR REFLECTED CEILING PLAN

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

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

DEMOLITION SECOND FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER:

AD302

11/5/2024 12:31:53 PM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\2233600 THA A302 SECOND FLOOR RCP.dwg

1 LS100 LIFE SAFETY BASEMENT FLOOR PLAN
SCALE: 1/16" = 1'-0"

11/5/2024 12:01:48 PM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\Life Safety\2233600 THA LS100 BASEMENT FLOOR PLAN.dwg

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
518-439-8235
labellapc.com

NOT FOR CONSTRUCTION

EXP:

EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:

Revisions

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

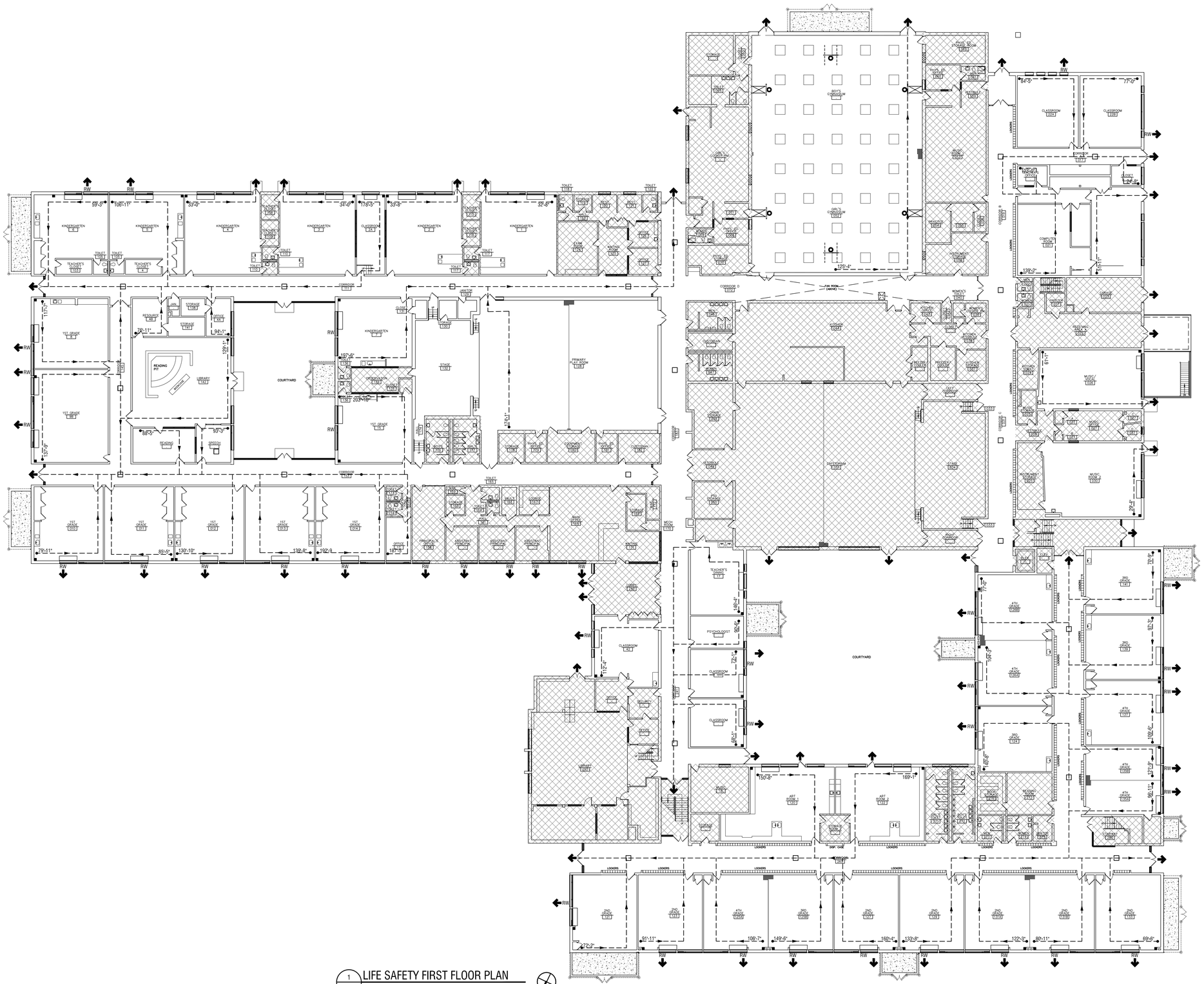
LIFE SAFETY BASEMENT FLOOR PLAN

DRAWING NUMBER:

LS100

LEGEND

- NO WORK IN THIS AREA
- RW — EXISTING RESCUE WINDOW
- EXISTING POINT OF EGRESS



1 LS101 LIFE SAFETY FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO.	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

LIFE SAFETY FIRST FLOOR PLAN

DRAWING NUMBER:

LS101

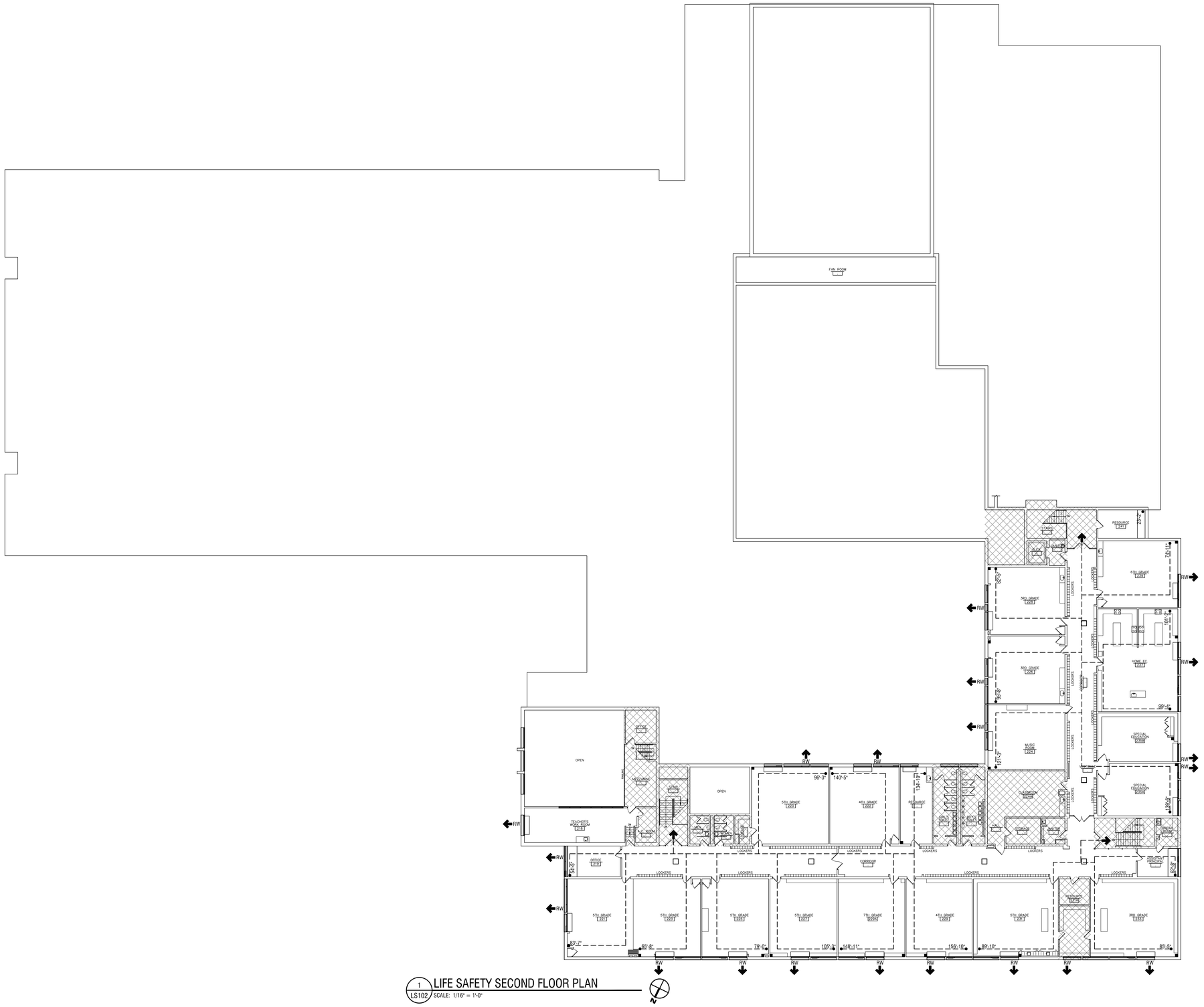
11/5/2024 12:02:24 PM
E:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Dorbrichwitz AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\Life Safety\2233600 THA LS101 FIRST FLOOR PLAN.dwg

LEGEND

NO WORK IN THIS AREA

RW EXISTING RESCUE WINDOW

EXISTING POINT OF EGRESS



1 LS102 LIFE SAFETY SECOND FLOOR PLAN

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

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
518-439-8235

labellapc.com

NOT FOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:

Revisions

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: JR

REVIEWED BY: PM

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: LIFE SAFETY SECOND FLOOR PLAN

DRAWING NUMBER: LS102

11/5/2024 12:20:36 PM
B:\GLOBAL\Projects\Newburgh Enlarged CSD\2233600 - Districtwide AC Elec Upgrade\06_Drawings\Arch\AUTOCAD\Temple Hill Academy\Life Safety\2233600 THA LS102 SECOND FLOOR PLAN.dwg

GENERAL NOTES:

1. THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE RELATED PROVISIONS OF THE 2020 NEW YORK STATE UNIFORM FIRE PREVENTION AND EXISTING BUILDING CODE (NYSEBC) AND STATE ENERGY CONSERVATION CONSTRUCTION CODE (ENERGY CODE) AND STANDARDS INCLUDING ASCE STANDARD (ASCE/SEI 7–16) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
2. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO: DIMENSIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON–BEARING WALLS, STAIRS, FINISHES, DRAINS, WATERPROOFING, RAILINGS, MECHANICAL UNIT LOCATIONS, AND OTHER NON–STRUCTURAL ITEMS.
3. THIS WORK IS BEING PERFORMED WITHIN AN ACTIVE FACILITY. COORDINATE ALL WORK WITH FACILITY PERSONNEL AND ENSURE THAT THE OPERATION OF THE FACILITY IS NOT NEGATIVELY AFFECTED BY THE WORK.
4. CONTRACTOR SHALL PROCURE ALL REQUIRED PERMITS IN ACCORDANCE WITH THE AUTHORITY HAVE JURISDICTION (AHJ) PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF WORK WITH OTHER TRADES; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES, MEANS AND METHODS OF ASSEMBLY; AND FOR PERFORMING WORK IN A SAFE AND SECURE MANNER. IN GENERAL, ALL STABILIZATION ITEMS INCLUDED IN CONSTRUCTION DOCUMENTS OR UNSTABLE ITEMS KNOWN TO THE CONTRACTOR, SHALL BE REMEDIATED AND STABILIZED PRIOR TO ANY OTHER DEMOLITION OR CONSTRUCTION.
6. CONTRACTOR TO BE RESPONSIBLE FOR STRENGTH AND STABILITY OF STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN CONSTRUCTION DOCUMENTS AND REQUIREMENTS FOR EXECUTING IT PROPERLY. CONTRACTOR SHALL EMPLOY A REGISTERED ENGINEER FOR THE DESIGN OF TEMPORARY SHORING WHERE REQUIRED. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL THE FLOOR DIAPHRAGM HAS BEEN INSTALLED.
7. LOADS ON STRUCTURES DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN "DESIGN CRITERIA" OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY CONTRACTOR'S SPECIALTY STRUCTURAL ENGINEER (SSE) FOR BRACING/SHORING. CONTRACTOR SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF THE SSE TO SUPPORT CONSTRUCTION EFFORTS INCLUDING BUT NOT LIMITED TO TEMPORARY SHORING, RIGGING SUPPORT OR MEANS AND METHODS OF CONSTRUCTION.
8. MEANS AND METHODS OF CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR INCLUDING BUT NOT LIMITED TO TEMPORARY BRACING/ SHORING, RIGGING, TEMPORARY WORK PLATFORMS, DE–WATERING, CREATING AND MAINTAINING STAGING AND TEMPORARY WORK AREAS ETC. CONTRACTOR SHALL SUBMIT PLANS FOR ALL TEMPORARY EARTH WORK STABILITY INCLUDING BUT NOT LIMITED TO DE–WATERING AND SLOPE/ VERTICAL CUT STABILITY.
9. CONTRACTOR TO HAVE SOLE RESPONSIBILITY TO NOTIFY ENGINEER OF ANY BUILDING SYSTEM, MECHANICAL, ELECTRICAL, OR PLUMBING SYSTEM LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (BUILDING SYSTEM, STRUCTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING DRAWINGS).
10. IN THE CASE OF DISCREPANCIES BETWEEN GENERAL NOTES, SPECIFICATIONS, PLAN/DETAILS, REFERENCE STANDARDS, OR BETWEEN DISCIPLINES THE ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
11. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH WORK.
12. CONTRACTOR SHALL DETERMINE THE LOCATION OF ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTHWORK, FOUNDATIONS, SHORING, AND EXCAVATION. UTILITY INFORMATION SHOWN ON DRAWINGS AND DETAILS IS APPROXIMATE AND NOT NECESSARILY COMPLETE.
13. DETAILS ENTITLED OR NOTED AS "TYPICAL" APPLY NOT ONLY WHERE SPECIFICALLY INDICATED OR REFERENCED, BUT ALSO IN ALL OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. DETERMINE APPLICABILITY OF TYPICAL DETAILS FROM DESCRIPTIVE TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION TO ANOTHER CONDITION WHERE THE DETAIL IS SPECIFICALLY INDICATED OR REFERENCED.
14. USE WATER MIST, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION; DO NOT CAUSE ICING, FLOODING, OR TRANSPORTATION OF POLLUTANTS.
15. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES. APPLICABLE SAFETY CODES MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS, AND ADDITIONS THERE TO, TO THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA), AND APPLICABLE LOCAL SAFETY AND HEALTH REGULATIONS AND BUILDING CODES FOR CONSTRUCTION IN THE STATE OF NEW YORK IN ADDITION TO ANY AND ALL "HOUSE RULES" AS REQUIRED BY OWNER.
16. TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL SUBMIT A PROPOSED CONSTRUCTION SEQUENCE TO THE ENGINEER OR AS OTHERWISE DIRECTED IN THE PROJECT SPECIFICATIONS FOR APPROVAL.
17. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS NEEDED BY THE CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO WORK IN CONGESTED UTILITY AREAS. ALL TEST PIT LOGS SHALL BE SUBMITTED TO THE ENGINEER WITHIN FOURTEEN (14) DAYS FOLLOWING NOTICE TO PROCEED UNLESS OTHERWISE DIRECTED BY THE SPECIFICATIONS OR ENGINEER.
18. THE GENERAL CHARACTER AND EXTENT OF THE WORK IS SHOWN ON THE CONTRACT DRAWINGS; HOWEVER, THE CONTRACTOR SHALL PROVIDE ALL WORK REQUIRED BY THE CONSTRUCTION DOCUMENTS REGARDLESS OF WHETHER OR NOT IT IS SHOW ON THE DRAWINGS.

SUBMITTAL NOTES:

1. SUBMITTALS OF SHOP DRAWINGS AND PRODUCT DATA ARE REQUIRED FOR ALL MATERIALS, SYSTEMS AND COMPONENTS AND FOR DELEGATED DESIGN ELEMENTS.
2. SUBMITTALS SHALL BE MADE AND SUBMITTED IN TIME TO PROVIDE A MINIMUM OF TWO WEEKS FOR REVIEW BY THE ENGINEER PRIOR TO ONSET OF FABRICATION.
3. PRIOR TO SUBMISSION TO ENGINEER, CONTRACTOR SHALL REVIEW SUBMITTAL FOR COMPLETENESS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY ENGINEER AND THEREFORE MUST BE VERIFIED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ANY NECESSARY DIMENSIONAL DETAILS REQUESTED BY DETAILER AND PROVIDE CONTRACTOR'S REVIEW STAMP AND SIGNATURE BEFORE FORWARDING TO ENGINEER.
4. ONCE CONTRACTOR HAS COMPLETED CONTRACTOR'S REVIEW, ENGINEER WILL REVIEW SUBMITTAL FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND CONTRACT DOCUMENTS OF BUILDING AND WILL STAMP SUBMITTAL ACCORDINGLY. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THERE FROM. NO FABRICATION SHALL COMMENCE UNTIL ALL RELEVANT SUBMITTALS HAVE BEEN REVIEWED BY ENGINEER AND STAMPED WITH NO EXCEPTIONS TAKEN.
5. WHEN SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) DIFFER FROM OR ADD TO THE REQUIREMENTS OF STRUCTURAL DRAWINGS THEY SHALL BE DESIGNED AND CERTIFIED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER.
6. REQUIRED SUBMITTALS ARE OUTLINED IN EACH RESPECTIVE SPECIFICATION SECTION. IN GENERAL, ALL ELEMENTS, PIECES, PROCESSES AND SYSTEMS SHALL BE SUBMITTED FOR REVIEW IN THE FORM OF SHOP DRAWINGS, CUT SHEETS AND/ OR MANUFACTURER PRODUCT LITERATURE AS APPROPRIATE.
7. REPRODUCTION OF CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS UNDER ANY CIRCUMSTANCE.

DESIGN CRITERIA (NEW CONSTRUCTION ONLY):

ALL WORK SHALL COMPLY WITH THE RELATED PROVISIONS OF THE UNIFORM CODE OF NEW YORK STATE AND ITS REFERENCE STANDARDS.

DESIGN BASIS
GOVERNING CODE..........2020 EXISTING BUILDING CODE

DESIGN CRITERIA
(ALL LOADS PROVIDED BELOW ARE UNFACTORED)

DEAD LOADS:
(ALL LOADS PROVIDED BELOW ARE SERVICE–LEVEL LOADS)

DEAD LOADS:
PRIMARY STRUCTURE..........SELF–WEIGHT
SECONDARY ROOF STRUCTURE (I.E. DECKING, PURLINS, ETC.)..........SELF–WEIGHT
SECONDARY WALL STRUCTURES (I.E. PANELING, GIRTS, ETC.)..........SELF–WEIGHT
SUSPENDED ROOF LOADING (I.E. M/E/P, COINCIDENTAL LOADS, ETC.)..........7 PSF
ROOF INSULATION AND VAPOR BARRIERS..........SELF–WEIGHT

LIVE LOADS:
ROOF..........20 PSF
FLOOR LIVE LOADS..........100 PSF
RTUS..........SEE PLAN

SNOW LOADS:
GROUND SNOW LOAD (Pg)..........30 PSF
BUILDING EXPOSURE.......... PART. EXPOSED
EXPOSURE FACTOR (Ce)..........1.0
IMPORTANCE FACTOR (Is)..........1.2
THERMAL FACTOR (Ct)..........1.2
FLAT ROOF SNOW LOAD (Pf)..........30.3 PSF
ROOF SYSTEM AND SLOPE..........FLAT ROOF
ROOF SLOPE FACTOR (Cs)..........1.0
SLOPED ROOF SNOW LOAD (Ps)..........N/A

WIND LOADS:
RISK CATEGORY III
BASIC WIND SPEED (3–SECOND GUST,V)..........113 MPH
ALLOWABLE WIND SPEED (V_{ASD})..........$(0.6)^{1/2}V$
EXPOSURE CATEGORY..........B
INTERNAL PRESSURE COEFFICIENT (Cpi)..........±0.18 (ENCLOSED)
COMPONENTS AND CLADDING DESIGN WIND PRESSURES..........SEE DIAGRAM

EARTHQUAKE DESIGN DATA
RISK CATEGORY..........III
IMPORTANCE FACTOR (Ie)..........1.0
MAPPED SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (S_s)..........0.224g
MAPPED SPECTRAL RESPONSE ACCELERATION FOR 1–SECOND PERIODS (S_1)..........0.056g
SITE CLASS..........D
SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (Sds)..........0.239g
SPECTRAL RESPONSE ACCELERATION FOR 1–SECOND PERIODS (Sd1)..........0.09g
SEISMIC DESIGN CATEGORY..........B
BASIC SEISMIC FORCE RESISTING SYSTEM..........N/A
RESPONSE MODIFICATION FACTOR (R)..........N/A
DESIGN BASE SHEAR..........N/A
ANALYSIS PROCEDURE..........N/A

ROOF RAIN LOADS:
15–MINUTE PRECIPITATION INTENSITY..........5.89 IN./H
60–MINUTE PRECIPITATION INTENSITY..........2.53 IN./H

SCOPE OF WORK NOTES:

1. OUR SCOPE OF WORK IS LIMITED TO THE STRUCTURAL SYSTEMS SPECIFICALLY DETAILED HEREIN TO SUPPORT NEW ROOF TOP UNITS AND WALL MOUNTED UNITS. ANCILLARY SYSTEMS NOT SPECIFICALLY DETAILED HEREIN ARE EXPECTED TO BE THE RESPONSIBILITY OF OTHERS OR THE MANUFACTURER FOR ITEMS SUCH AS BUT NOT LIMITED TO: STAIRS AND RAILINGS, NON–STRUCTURAL PARTITION WALLS, AWNINGS / CANOPIES, CURBS, FACADE ASSEMBLIES, INTERIOR FURNISHINGS, EXTERIOR ATTACHMENTS / LIGHTING, AND DELEGATED DESIGN ITEMS.
2. INFORMATION GRAPHICALLY DEPICTED ON BACKGROUNDS / REFERENCE FILES AND NOT SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS ARE NOT INCLUDED IN OUR SCOPE OF WORK OR WITHIN OUR DESIGN RESPONSIBILITY.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL FOR THIS PROJECT IS DESIGNED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATIONS PER AISC – "MANUAL OF STEEL CONSTRUCTION" FIFTEENTH EDITION (2017).
2. CONFORM TO THE FOLLOWING REFERENCE STANDARDS:
   - 2.1. NEW YORK BUILDING CODE, CHAPTER 22 – STEEL
   - 2.2. ANSI/AISC 303–10 – CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS BRIDGES, HEREAFTER REFERENCED AS AISC 303.
   - 2.3. ANSI/AISC 360–16 – SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, HEREAFTER REFERRED TO AS AISC 360.
   - 2.4. AISC 348– 04IRCSC – SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, PREPARED BY "RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS" (RCSC), HEREAFTER REFERENCED AS RCSC.
   - 2.5. AWS D1.1–15 – STRUCTURAL WELDING CODE – STEEL, HEREAFTER REFERENCED AS AWS D1.1.
3. SUBMITTALS:
   - 3.1. SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH AISC 360 SECTION 1 AND AISC 303 SECTION 4.
   - 3.2. SUBMIT WELDER'S CERTIFICATES VERIFYING QUALIFICATION WITHIN PAST 12 MONTHS.
   - 3.3. AFFIDAVIT STATING THE STEEL PROVIDED MEETS THE REQUIREMENTS OF THE GRADES SPECIFIED.
   - 3.4. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK TO PREPARE AND CERTIFY THE STEEL CONNECTION DESIGN SUBMITTAL WHICH SHALL INCLUDE THE ASSUMPTIONS, DESIGN CALCULATIONS AND SHOP DRAWINGS AS REQUIRED TO FABRICATE AND ERECT THE FINISHED STRUCTURE AS SHOWN ON STRUCTURAL DRAWINGS.
4. MATERIALS:
   WIDE FLANGE (W), TEE (WT) SHAPES..........ASTM A 992 Fy = 50 KSI
   CHANNEL (C) ANGLE (L) SHAPES..........ASTM A 36, Fy = 36 KSI
   STRUCTURAL BARS AND PLATES (PL)..........ASTM A 36, Fy =36 KSI
   HOLLOW STRUC. SECTION–SQUARE/RECT (HSS)........ASTM A 500, GRADE B Fy = 46 KSI
   STRUCTURAL PIPE, (PIPE) 12" DIA. AND LESS..........ASTM A 53, GRADE B Fy = 35 KSI
   HIGH–STRENGTH BOLTS..........ASTM A 325–TC
   PLAIN NUTS..........ASTM A 563
   WASHERS (FLAT OR BEVELED)............ASTM F 436–REQUIRED SLOTS & OVERSIZE HOLES
   ANCHOR RODS (ANCHOR BOLTS)..........ASTM F 1554, Gr. 36
   MILD THREADED RODS..........ASTM A 36, Fy = 36 KSI
   WELDING ELECTRODES..........E70XX, E71TXX UNLESS OTHERWISE NOTED WITH A MINIMUM TOUGHNESS OF 20 FT–LBS AT 40°F
5. WELDING:
   - 5.1. CONFORM TO AWS D1.1 AND VISUALLY CONFORM TO AWS SECTION 6 AND TABLE 6.1.
   - 5.2. WELDERS SHALL BE QUALIFIED FOR THE SPECIFIC PREQUALIFIED JOINTS REQUIRED BY DESIGN AND CERTIFIED IN ACCORDANCE WITH LOCAL REQUIREMENTS.
   - 5.3. WELDING SHALL BE DONE IN ACCORDANCE WITH APPROPRIATE WELD PROCEDURE SPECIFICATIONS (WPS'S). WELDERS SHALL BE FAMILIAR WITH APPLICABLE WPS'S.
   - 5.4. WELDING SHALL BE PERFORMED WITH AWS PREQUALIFIED WELDING PROCESS UNLESS OTHERWISE APPROVED.
   - 5.5. WELDER QUALIFICATIONS AND WPS'S SHALL BE MAINTAINED AT SITE OF WORK AND SHALL BE READILY AVAILABLE FOR INSPECTION UPON REQUEST BOTH IN SHOP AND FIELD.
   - 5.6. USE E70 OR E71 T, 70 KSI STRENGTH ELECTRODES APPROPRIATE FOR PROCESS SELECTED.
6. ALL COLUMNS (VERTICAL MEMBER ASSEMBLIES WEIGHING OVER 300 POUNDS) SHALL BE PROVIDED WITH A MINIMUM OF FOUR ¾" DIAMETER ANCHOR RODS. COLUMN BASE PLATES SHALL BE AT LEAST ¾" THICK UNLESS NOTED OTHERWISE. CAST–IN–PLACE HEADED ANCHOR RODS SHALL BE PROVIDED UNLESS OTHERWISE APPROVED BY ENGINEER. UNLESS NOTED OTHERWISE, EMBEDMENT OF CAST–IN–PLACE HEADED ANCHOR RODS SHALL BE 12 TIMES THE ANCHOR DIAMETER (12D).
7. FABRICATION:
   - 7.1. CONFORM TO AISC 303, SECTION 8 AND AISC 360 SECTIONS M2 AND M5.
   - 7.2. STRUCTURAL WELDING AND QUALIFICATIONS SHALL CONFORM TO AWS D1.1. FABRICATOR SHALL MAINTAIN DETAILED FABRICATION AND ERECTION QUALITY CONTROL PROCEDURES PER BCNYS SECTION 1704.2.1.
   - 7.3. ALL STEEL COMPONENTS SHALL BE HOT DIPPED GALVANIZED.
8. ERECTION:
   - 8.1. CONFORM TO AISC 303, SECTION 7 "ERECTION", SECTION 8 "QUALITY ASSURANCE" AND AISC 380 SECTION 4.
   - 8.2. ERECTOR SHALL MAINTAIN DETAILED FABRICATION AND ERECTION QUALITY CONTROL PROCEDURES THAT ENSURE WORK IS PERFORMED IN ACCORDANCE WITH AISC 360 SECTION M, AISC 303, AND CONTRACT DOCUMENTS.
   - 8.3. STEEL WORK SHALL BE CARRIED UP TRUE AND PLUMB WITHIN LIMITS DEFINED IN AISC 303 SECTION 7.11.
   - 8.4. STRUCTURAL WELDING TO CONFORM TO AWS D1.1 AND APPLICABLE WELDING NOTES ABOVE.
9. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SAFETY PROTECTIONS REQUIRED BY AISC 360 SECTION M4.2 AND AISC 303 SECTION 7.10 AND 7.11.

Design Component & Cladding Loads							
	Area (sf)	Zone 1'	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Wind Pressure (+) (psf)	10	16.0	16.0	16.0	16.0	21.6	21.6
	20	16.0	16.0	16.0	16.0	20.7	20.7
	50	16.0	16.0	16.0	16.0	19.8	19.8
	100	16.0	16.0	16.0	16.0	18.0	18.0
	200	16.0	16.0	16.0	16.0	17.6	17.6

Design Component & Cladding Loads								Overhang	
	Area (sf)	Zone 1'	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 2	Zone 3
Wind Pressure (-) (psf)	10	-19.8	-34.5	-45.5	-62.0	-23.5	-29.0	-45.5	-62.0
	20	-19.8	-32.6	-42.2	-56.5	-22.6	-27.1	-41.4	-55.0
	50	-19.8	-29.0	-38.5	-47.9	-21.3	-24.4	-36.3	-45.8
	100	-19.8	-27.1	-35.9	-42.4	-20.2	-22.6	-32.6	-39.6
	200	-17.1	-24.4	-32.6	-36.3	-19.3	-20.7	-29.0	-32.6

W1
S001

COMPONENT AND CLADDING WIND DESIGN PRESSURE FOR FLAT ROOF

SCALE: N.T.S

CONCRETE MASONRY UNIT - MASONRY:

1. COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION (CMU) WALL SYSTEM SHALL BE AS FOLLOWS: MASONRY STRENGTH NOT SPECIFICALLY NOTED IN PLAN SHALL BE f'm = 2000 PSI MINIMUM. STRENGTH OF BLOCK ITSELF SHALL BE f'm = 2000 PSI MIN.
2. CONCRETE MASONRY SHALL BE HOLLOW LOAD–BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. ALL UNITS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION WITH ALL VERTICAL CELLS IN ALIGNMENT EXCEPT AT DRY STACKED INFILL LOCATIONS.
3. MORTAR SHALL CONFORM TO REQUIREMENTS OF TYPE M OR S.
4. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615. REINFORCING SHALL BE GRADE 60 (Fy = 60 KSI) DEFORMED BARS FOR ALL BARS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. ALL REINFORCING TO BE WELDED SHALL BE ASTM A706, GRADE 60 LOW ALLOY WELDABLE STEEL.
5. HORIZONTAL MASONRY JOINT REINFORCEMENT SHALL COMPLY WITH ASTM A951. HORIZONTAL REINFORCEMENT TO BE HOT–DIPPED GALVANIZED STEEL LADDER TYPE WITH 9 GAUGE MINIMUM SIDE AND CROSS RODS.
6. WELDING OF REINFORCING BARS, METAL INSERTS, AND CONNECTIONS SHALL CONFORM TO AMERICAN WELDING SOCIETY AWS D1.4 – STRUCTURAL WELDING CODE, AND SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS AND DETAILS.
7. ALL REINFORCING SHALL BE BENT COLD, BARS SHALL NOT BE STRAIGHTENED AND REBENT. FIELD BENDING OF REBAR SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED OTHERWISE.
8. REINFORCING BAR SPACING SHOWN ON PLANS ARE AT MAXIMUM ON CENTERS. ALL BARS SHALL BE DETAILED AND PLACED WITHIN ½" TOLERANCE PERPENDICULAR TO THE WALL AND WITHIN 2" TOLERANCE PARALLEL TO THE WALL. SUPPORT ALL REINFORCEMENT TO PREVENT DISPLACEMENT CAUSED BY CONSTRUCTION LOADS OR BY PLACEMENT OF GROUT AND MORTAR BEYOND ALLOWABLE TOLERANCES.
9. MASONRY GROUT SHALL BE IN ACCORDANCE WITH ASTM C476. GROUT EXCEPT FOR SELF CONSOLIDATING GROUT SHALL HAVE A SLUMP BETWEEN 8 AND 11" WHEN MEASURED IN ACCORDANCE WITH ASTM C143.
10. BAR LAP LENGTHS:
    - 10.1. #4 BAR – 20 INCHES
    - 10.2. #5 BAR – 25 INCHES
11. MINIMUM VERTICAL WALL REINFORCING SHALL BE AS INDICATED IN THE PLANS AND SHALL BE FULL HEIGHT IN CENTER OF GROUTED CELL AT WALL INTERSECTIONS, CORNERS, AND DOOR JAMBS.
12. MINIMUM HORIZONTAL WALL REINFORCING SHALL INCLUDE A BOND BEAM AT THE TOP OF THE WALL WITH A MINIMUM OF 1 NO. 4 BAR CONTINUOUS AROUND PERIMETER FOR 6" MASONRY WALLS AND 1 NO. 5 CONTINUOUS AROUND THE PERIMETER FOR 8" MASONRY WALLS. PROVIDE BENT BARS PER TYPICAL DETAILS TO MATCH AND LAP WITH HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND WALL INTERSECTIONS TO MAINTAIN CONTINUITY OF BOND BEAM REINFORCEMENT.
13. MINIMUM MASONRY LINTEL SHALL BE AS INDICATED IN THE PLANS. ALL LINTEL REINFORCING SHALL EXTEND 2 FEET PAST JAMBS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.
14. MASONRY VENEER SHALL BE ATTACHED TO SUPPORTING WALL FRAMING WITH A 3⁄16" DIA. WALL TIES OR DOVETAIL–TYPE METAL TIES OF EQUIVALENT STIFFNESS EMBEDDED INTO HORIZONTAL MORTAR JOINTS. MAXIMUM VERTICAL SPACING OR TIES SHALL BE 16". MAX HORIZONTAL SPACING SHALL BE 24". TIES IN ALTERNATE COURSES SHALL BE STAGGERED. PROVIDE 9 GA. WIRE REINFORCING IN HORIZONTAL MORTAR JOINTS AT 16" O.C. ENGAGE 9 GA. WIRE WITH WALL ANCHOR TIES.
15. LOOSE ANGLE BRICK LINTELS SHALL BE SPECIFIED BY OTHERS.
16. RETAINING WALLS, BASEMENT WALLS, ETC., SHALL BE ADEQUATELY WATERPROOFED AND DRAINED AS SPECIFIED BY OTHERS.
17. WHERE VERTICAL REINFORCING INTERSECTS HORIZONTAL REINFORCING, BOTH SHALL BE CONTINUOUS.
18. MAXIMUM HEIGHT FOR GROUT POUR SHALL NOT EXCEED 64" UNLESS A CLEANOUT IS PROVIDED AT THE BOTTOM OF EACH CELL CONTAINING REINFORCEMENT OR AT A MAXIMUM HORIZONTAL SPACING OF 32" WHICHEVER IS LESS.
19. FOLLOW ALL MANUFACTURER'S INSTALLATION RECOMMENDATIONS WHERE DOWELS, BOLTS, OR INSERTS ARE CALLED TO BE ANCHORED TO CAST IN PLACE CONCRETE ELEMENTS USING EPOXY ADHESIVES OR MECHANICAL ANCHORAGE.

GUARDRAIL AND HANDRAIL NOTES:

1. ALL GUARDRAILS AND HANDRAILS SHALL CONFORM TO 2020 BUILDING CODE OF NEW YORK STATE AND OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS AND REGULATIONS.
2. GUARDRAILS AND HANDRAILS SHALL BE THE PRODUCT OF A COMPANY NORMALLY ENGAGED IN THE MANUFACTURING OF PIPE RAILING. RAILING SHALL BE SHOP ASSEMBLED IN LENGTHS NOT TO EXCEED 24 FEET FOR FIELD ERECTION.
3. THE HANDRAIL SHALL BE MADE OF PIPES JOINED TOGETHER WITH COMPONENT FITTINGS. SAMPLES OF ALL COMPONENTS, BASES, TOE PLATE AND PIPE SHALL BE SUBMITTED FOR APPROVAL AT THE REQUEST OF THE ENGINEER. COMPONENTS THAT ARE POP–RIVETED OR GLUED AT THE JOINTS WILL NOT BE ACCEPTABLE. ALL COMPONENTS MUST BE WELDED OR MECHANICALLY FASTENED WITH STAINLESS STEEL HARDWARE. HANDRAIL AND COMPONENTS SHALL BE FABRICATED OR MANUFACTURED BY A CERTIFIED SUPPLIER.
4. RAILINGS SHALL BE 1½" SCHEDULE 40 STEEL. POSTS SHALL BE 1½" SCHEDULE 40 STEEL PIPE OF THE SAME ALLOY. POST SPACING SHALL BE A MAXIMUM OF 4'–0".
5. GUARDRAILS AND HANDRAILS SHALL BE DESIGNED TO WITHSTAND A LINEAR LOAD OF 50 POUNDS PER LINEAR FOOT AND A 200 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE TOP RAIL. THE LINEAR LOAD AND CONCENTRATED LOAD SHALL NOT BE CONCURRENT.
6. THE MANUFACTURER SHALL SUBMIT CALCULATIONS FOR APPROVAL OF THE ENGINEER. TESTING OF BASE CASTINGS OR BASE EXTRUSIONS BY AN INDEPENDENT LAB OR MANUFACTURER'S LAB WILL BE AN ACCEPTABLE SUBSTITUTE FOR CALCULATIONS. CALCULATIONS WILL BE REQUIRED FOR APPROVAL OF ALL OTHER DESIGN ASPECTS.
7. POSTS SHALL NOT INTERRUPT THE CONTINUATION OF THE TOP RAIL AT ANY POINT ALONG THE RAILING, INCLUDING CORNERS AND END TERMINATIONS (OSHA 1910.23). THE TOP SURFACE OF THE TOP RAILING SHALL BE SMOOTH AND SHALL NOT BE INTERRUPTED BY PROJECTED FITTINGS.
8. THE MID–RAIL AT A CORNER RETURN SHALL BE ABLE TO WITHSTAND A 200 LB LOAD WITHOUT LOOSENING. THE MANUFACTURER IS TO DETERMINE THIS DIMENSION FOR THEIR SYSTEM AND PROVIDE PHYSICAL LABORATORY TESTS TO CONFIRM COMPLIANCE.
9. CONCRETE ANCHORS SHALL BE STAINLESS STEEL AND FURNISHED BY THE CONTRACTOR. THE ANCHOR DESIGN SHALL INCLUDE THE APPROPRIATE REDUCTION FACTORS FOR SPACING AND EDGE DISTANCES IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DATA.
10. TOE BOARDS SHALL BE PROVIDED WHEN EMPLOYEES BELOW COULD BE EXPOSED TO FALLING OBJECTS. TOE BOARDS SHALL CONFORM TO OSHA STANDARDS. TOE BOARDS SHALL BE A MINIMUM OF 4" HIGH AND BE CAPABLE OF WITHSTANDING A FORCE OF 50 POUNDS APPLIED IN ANY DIRECTION. TOE BOARDS SHALL BE AN EXTRUSION THAT ATTACHES TO THE POSTS WITH CLAMPS THAT WILL ALLOW FOR EXPANSION AND CONTRACTION BETWEEN POSTS. TOE BOARDS SHALL BE SET 1/4" ABOVE THE WALKING SURFACE. TOE BOARDS SHALL BE PROVIDED ON GUARDRAILS AS REQUIRED BY OSHA AND/OR AS SHOWN ON DRAWINGS.
11. OPENINGS IN THE GUARDRAIL SHALL BE GUARDED BY A SELF–CLOSING GATE (OSHA 1910.23). SAFETY CHAINS SHALL NOT BE USED UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
12. FINISHES SHALL MEET OSHA STANDARDS AND REGULATIONS. STEEL SHALL RECEIVE TWO (2) COATS OF ZINC–RICH PRIMER AND ONE (1) FINISH COAT (BRIGHT YELLOW FOR VISIBILITY).
13. SURFACES IN CONTACT WITH CONCRETE, GROUT OR DISSIMILAR METALS WILL BE PROTECTED WITH A COAT OF BITUMINOUS PAINT, MYLAR ISOLATORS OR OTHER APPROVED MATERIAL.

CAST-IN-PLACE CONCRETE:

1. CONFORM TO THE FOLLOWING REFERENCE STANDARDS:
   - 1.1. ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE"
   - 1.2. ACI 302 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
   - 1.3. BUILDING CODE CHAPTER 19 – CONCRETE
   - 1.4. ACI 318–14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
2. CONTRACTOR TO KEEP A COPY OF ACI FIELD REFERENCE MANUAL, SP–15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) WITH SELECTED ACI AND ASTM REFERENCES".
3. CONFORM TO ACI 301 SECTION 4 "CONCRETE MIXTURES".
4. CONFORM TO ACI 301 SECTION 4.2.1 "MATERIALS" FOR REQUIREMENTS FOR CEMENTITIOUS MATERIALS, AGGREGATES, MIXING WATER AND ADMIXTURES.
5. PROVIDE ALL SUBMITTALS REQUIRED BY ACI 301 SECTION 4.1.2. SUBMIT MIX DESIGNS FOR EACH MIX IN THE TABLE BELOW.

MIX DESIGN REQUIREMENTS								
MEMBER TYPE/LOCATION	STRENGTH (PSI)	TEST AGE (DAYS)	MAXIMUM AGGREGATE		AIR CONTENT	CEMENTITIOUS MATERIALS	FINISH	% FLY ASH OF CEMENTIOUS MATERIAL
CONCRETE TOPPING	5000	28	1"		6% (±1.5%)	ASTM C150	BROOM FINISH	15%–30%

SLUMP NOTES
1. 8" MAXIMUM FOR FLOWABLE CONCRETE. CONCRETE CONTAINING HRWR ADMIXTURE (SUPERPLASTICIZER): 3" MAXIMUM BEFORE ADDITION OF HRWR. PLASTICIZER SHALL BE ADDED AND MIXED ON SITE IF TRAVEL TIME IS GREATER THAN 40 MINUTES.
2. WHERE FIELD CONDITIONS REQUIRE SLUMP TO EXCEED THAT SPECIFIED ABOVE, INCREASED SLUMP SHALL BE OBTAINED BY A SUPERPLASTICIZER ADDED ON SITE IN QUANTITIES SPECIFICALLY NOTED IN THE APPROVED MIX DESIGN.
3. NO WATER SHALL BE ADDED ON SITE EXCEPT IN QUANTITIES SPECIFICALLY NOTED IN THE APPROVED MIX DESIGN.
4. SEE SPECIFICATIONS, FOR SLUMP REQUIREMENTS.

6. MIX DESIGN NOTES:
   - 6.1. MIX DESIGN SUBMITTED SHALL HAVE DOCUMENTATION OF HISTORICAL BREAK STRENGTHS IN ACCORDANCE WITH ACI 318–14 SECTION 26.12.
   - 6.2. WATER–CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. RATIOS NOT SHOWN IN TABLE ABOVE ARE CONTROLLED BY STRENGTH REQUIREMENTS.
   - 6.3. CEMENTITIOUS CONTENT:
     - 6.3.1. THE USE OF FLY ASH, OTHER POZZOLANS, SILICA FUME, OR SLAG SHALL CONFORM TO ACI 301 SECTION 4.2.2.8.b. MAXIMUM AMOUNT OF FLY ASH SHALL BE 20% OF TOTAL CEMENTITIOUS CONTENT UNLESS OTHERWISE REVIEWED AND APPROVED BY ENGINEER.
     - 6.3.2. FOR CONCRETE USED IN ELEVATED FLOORS, PORTLAND CEMENT CONTENT SHALL CONFORM TO ACI 301 SECTION 4.2.2.1. ACCEPTANCE OF LOWER CEMENT CONTENT IS CONTINGENT ON PROVIDING SUPPORTING DATA TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
   - 6.4. AIR CONTENT: CONFORM TO ACI 301 SECTION 4.2.2.4. CONCRETE SURFACES IN CONTACT WITH SOIL REQUIRE ENTRAINED AIR. HORIZONTAL AND VERTICAL EXTERIOR SURFACES REQUIRE "SEVERE EXPOSURE". TOLERANCE IS ±1%. AIR CONTENT SHALL BE MEASURED AT POINT OF PLACEMENT.
   - 6.5. SLUMP: CONFORM TO ACI 301 SECTION 4.2.2.2. SLUMP SHALL BE DETERMINED AT POINT OF PLACEMENT.
   - 6.6. NO CHLORIDES SHALL BE USED IN ANY CONCRETE MIX DESIGN. ALL AGGREGATES, CEMENT, WATER AND ADDITIVES SHALL BE CHLORIDE FREE.
7. THE ENGINEER OF RECORD (EOR) CANNOT PROVIDE RECOMMENDATIONS REGARDING TIMING FOR STRIPPING FORMS, BACKFILLING WALLS, REMOVAL OF SHORING (AS FOR ELEVATED SLABS) AND / OR LOADING STRUCTURAL ELEMENTS AS THIS IS PART OF THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION AND INCLUDES VARIABLES OUTSIDE OF THE EOR'S CONTROL. IN GENERAL, STRUCTURAL ELEMENTS CAN BE LOADED ONCE AT LEAST 75% OF THE SPECIFIED 28–DAY CONCRETE STRENGTH HAS BEEN ACHIEVED. CONTRACTOR MAY UTILIZE CONCRETE SENSORS (SUCH AS HILTI HCS T1 CONCRETE SENSOR) TO MONITOR STRENGTH AS PART OF THEIR MEANS AND METHODS OF CONSTRUCTION. FOR CONCRETE LESS THAN 18–INCH THICKNESS, CONTRACTOR MAY REQUEST ADDITIONAL FIELD CURED SAMPLES TO MONITOR STRENGTH AS PART OF THEIR MEANS AND METHODS OF CONSTRUCTION.
8. CONCRETE DENSITY SHALL BE NORMAL WEIGHT UNLESS SPECIFICALLY OTHERWISE NOTED.
9. CONCRETE REINFORCING STEEL SHALL BE CONTINUOUS UNLESS OTHERWISE INDICATED. CONTINUOUS REINFORCING STEEL SHALL BE LAPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND THE CONCRETE REINFORCEMENT SCHEDULE THIS SHEET.
10. ALL EMBEDDED ITEMS SHALL BE PROPERLY PLACED, ACCURATELY POSITIONED, AND MAINTAINED SECURELY IN PLACE PRIOR TO AND DURING CONCRETE PLACEMENT.
11. NO CONCRETE SHALL BE PLACED UNTIL THE CONTRACTING OFFICER HAS INSPECTED ALL EMBEDDED WORK, INCLUDING REINFORCEMENT.
12. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED ¾" OR AS INDICATED.
13. ALUMINUM SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM–CONCRETE REACTION AND ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
14. CONFORM TO ACI 301 SECTION 2 "FORMWORK AND FORM ACCESSORIES". REMOVAL OF FORMS SHALL CONFORM TO SECTION 2.3.2 EXCEPT STRENGTH INDICATED IN SECTION 2.3.2.5 SHALL BE 0.75 f'c.
15. MEASURING, MIXING AND DELIVERY SHALL CONFORM TO ACI 301 SECTION 4.3.
16. HANDLING, PLACING, CONSTRUCTING AND CURING SHALL CONFORM TO ACI 301 SECTION 5.
17. PROVIDE CURING COMPOUNDS FOR CONCRETE AS FOLLOWS:
    - 17.1. SPRAY EVAPORATIVE RETARDANTS AS FINISHING AGENT AND TO CONTROL PLASTIC SHRINKAGE.
    - 17.2. APPLY SPECIFIED CURING COMPOUND TO CONCRETE SLABS AS SOON AS FINAL FINISHING OPERATIONS ARE COMPLETE (WITHIN 2 HOURS AND AFTER SURFACE WATER SHEEN HAS DISAPPEARED). APPLY UNIFORMLY IN CONTINUOUS OPERATION BY POWER SPRAY OR ROLLER IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. RECOAT AREAS SUBJECTED TO HEAVY RAINFALL WITHIN 3 HOURS AFTER INITIAL APPLICATION. MAINTAIN CONTINUITY OF COATING AND REPAIR DAMAGE DURING CURING PERIOD.
    - 17.3. USE MEMBRANE CURING COMPOUNDS THAT WILL NOT AFFECT SURFACES TO BE COVERED WITH FINISH MATERIALS APPLIED DIRECTLY TO CONCRETE.
    - 17.4. APPLY CURING COMPOUND AT RATE EQUIVALENT TO RATE OF APPLICATION AT WHICH CURING COMPOUND WAS ORIGINALLY TESTED FOR CONFORMANCE TO REQUIREMENTS OF ASTM C 309.
    - 17.5. USE CURING COMPOUND COMPATIBLE WITH AND APPLIED UNDER DIRECTION OF SYSTEM MANUFACTURER OF PROTECTION SEALER.
    - 17.6. ALL CONCRETE MUST ACHIEVE 1000 PSI COMPRESSIVE STRENGTH BEFORE BEING SUBJECTED TO FREEZING AND THAWING CYCLES.
    - 17.7. APPLY 2 SEPARATE COATS WITH FIRST ALLOWED TO BECOME TACKY BEFORE APPLYING SECOND. DIRECTION OF SECOND APPLICATION SHALL BE AT RIGHT ANGLES TO DIRECTION OF FIRST.
18. CONSTRUCTION JOINTS SHALL CONFORM TO ACI 301 SECTIONS 2.2.2.5, 5.1.2.3a, 5.2.2.1 AND 5.3.2.6. CONSTRUCTION JOINTS SHALL BE LOCATED AND DETAILED AS ON CONSTRUCTION DRAWINGS. USE OF AN ACCEPTABLE ADHESIVE, SURFACE RETARDANT, PORTLAND CEMENT GROUT OR ROUGHENING THE SURFACE IS NOT REQUIRED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
19. POSITION AND SECURE IN PLACE EXPANSION JOINT MATERIAL, ANCHORS AND OTHER STRUCTURAL AND NON–STRUCTURAL EMBEDDED ITEMS BEFORE PLACING CONCRETE. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND BUILDING SYSTEMS DRAWINGS AND COORDINATE OTHER EMBEDDED ITEMS.
20. USE 7,000 PSI NON–SHRINK GROUT UNDER COLUMN BASE PLATES, ETC.
21. POST–INSTALLED ANCHORS TO CONCRETE: ANCHOR LOCATION, TYPE, DIAMETER AND EMBEDMENT SHALL BE AS INDICATED ON DRAWINGS. ANCHORS SHALL BE INSTALLED AND INSPECTED IN STRICT ACCORDANCE WITH APPLICABLE ICC EVALUATION SERVICE REPORT (ESR). SPECIAL INSPECTION SHALL BE PER THE TESTS AND INSPECTIONS SECTION.
22. FINISH:
    - 22.1. FLOATED WITH LIGHT STEEL TROWEL AND BROOM FINISH.
23. OWNER SHALL RETAIN AN INDEPENDENT TESTING LAB TO OBTAIN SAMPLES AND CONDUCT TESTS IN ACCORDANCE WITH ACI 301 SECTION 1.6.4.2. ADDITIONAL SAMPLES MAY BE REQUIRED TO OBTAIN CONCRETE STRENGTHS AT ALTERNATE INTERVALS THAN SHOWN BELOW.
    - 23.1. CURE 5 CYLINDERS FOR 28–DAY TEST AGE. TEST 2 CYLINDERS AT 7 DAYS OR AT CONTRACTOR REQUEST, TEST 2 CYLINDERS AT 28 DAYS, AND HOLD 1 CYLINDER IN RESERVE FOR USE AS ENGINEER DIRECTS. AFTER 56 DAYS, UNLESS NOTIFIED BY ENGINEER TO THE CONTRARY, RESERVE CYLINDER MAY BE DISCARDED WITHOUT BEING TESTED FOR SPECIMENS MEETING 28–DAY STRENGTH REQUIREMENTS.
    - 23.2. ACCEPTABLE STRENGTH IS SATISFACTORY WHEN:
      - 23.2.1. THE AVERAGES OF ALL SETS OF 3 CONSECUTIVE TESTS EQUAL OR EXCEED THE SPECIFIED STRENGTH.
      - 23.2.2. NO INDIVIDUAL TEST FALLS BELOW THE SPECIFIED STRENGTH BY MORE THAN 500 PSI.
      - 23.2.3. A "TEST" FOR ACCEPTANCE IS THE AVERAGE STRENGTH OF 2 CYLINDERS TESTED AT THE SPECIFIED TEST AGE.
24. COLD WEATHER CONCRETE PLACEMENT
    - 24.1. PLACE CONCRETE IN ACCORDANCE WITH ACI 306.1 AND AS FOLLOWS. PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST FREEZING ACTIONS, OR LOW TEMPERATURES.
    - 24.2. WHEN AIR TEMPERATURE HAS FALLEN TO OR IS EXPECTED TO FALL BELOW 40°F UNIFORMLY HEAT WATER AND AGGREGATES BEFORE MIXING TO OBTAIN A CONCRETE MIX TEMPERATURE OF NOT LESS THAN 50°F AND NOT MORE THAN 80° AT POINT OF PLACEMENT.
    - 24.3. DO NOT USE FROZEN MATERIALS OR MATERIALS CONTAINING ICE OR SNOW. DO NOT PLACE CONCRETE ON FROZEN SUBGRADE OR ON SUBGRADE CONTAINING FROZEN MATERIALS. DO NOT USE CALCIUM CHLORIDE, SALT OR OTHER MATERIALS CONTAINING ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS, UNLESS OTHERWISE SPECIFIED AND APPROVED IN MIX DESIGNS.
25. HOT WEATHER CONCRETE PLACEMENT SHALL BE IN CONFORMANCE WITH ACI 305R LATEST EDITION "HOT WEATHER CONCRETING".
    - 25.1. CONCRETE SHALL NOT BE PLACED THAT HAS REACHED OR EXCEEDED 90°F.
26. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME UNLESS SPECIFICALLY APPROVED BY ENGINEER. ENGINEER OR INSPECTOR HAS AUTHORITY TO REJECT TRUCKS NOT MEETING PROJECT SPECIFICATIONS AND/ OR TEMPERATURE/ TIME REQUIREMENTS. CONTRACTOR TAKES FULL RESPONSIBILITY FOR ANY REJECTED TRUCKS

CONCRETE REINFORCEMENT NOTES:

1. CONFORM TO THE FOLLOWING REFERENCE STANDARDS:
   - 1.1. ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", SECTION 3 "REINFORCEMENT SUPPORTS"
   - 1.2. ACI SP–66 "ACI DETAILING MANUAL" INCLUDING ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
   - 1.3. CRSI MSP–2 "MANUAL OF STANDARD PRACTICE"
   - 1.4. ANSI/AWS D1.4 "STRUCTURAL WELDING CODE – REINFORCING STEEL"
   - 1.5. BUILDING CODE CHAPTER 19 – CONCRETE
   - 1.6. ACI 318–14
2. CONFORM TO ACI 301 SECTION 3.1.1 "SUBMITTALS, DATA AND DRAWINGS". SUBMIT PLACING DRAWINGS SHOWING FABRICATION DIMENSIONS AND LOCATIONS FOR PLACEMENT OF REINFORCEMENT AND REINFORCEMENT SUPPORTS.
3. MATERIALS:
   A. REINFORCING BARS..........ASTM A 615, GRADE 60, DEFORMED BARS
   B. BAR SUPPORTS..........CRSI SP–2, CHAPTER 3 – BAR SUPPORTS
   C. TIE WIRE..........4/0 GAUGE OR HEAVIER, BLACK ANNEALED
   D. WELDED WIRE REINFORCEMENT..........ASTM A185, SHEET TYPE
4. CONFORM TO ACI 301, SECTION 3.2.2 "FABRICATION" AND ACI SP–66 "ACI DETAILING MANUAL".
5. BARS SHALL NOT BE WELDED UNLESS AUTHORIZED. WHEN AUTHORIZED, CONFORM TO ACI 301, SECTION 3.2.2.2 "WELDING" AND PROVIDE ASTM A706, GRADE 60 REINFORCEMENT.
6. WELDED WIRE REINFORCEMENT SHEET LAPS SHALL BE TIED AND LAPPED ONE FULL MESH SPACING PLUS 2".
7. CONFORM TO ACI 301, SECTION 3.3.2 "PLACEMENT". PLACING TOLERANCES SHALL CONFORM TO SECTION 3.3.2.1 "TOLERANCES".
8. CONFORM TO THE FOLLOWING MINIMUM COVER REQUIREMENTS FROM ACI 301, TABLE 3.3.2.3:
   A. CONCRETE CAST AGAINST EARTH..........3"
   B. CONCRETE EXPOSED TO EARTH OR WEATHER..........2"
   C. SLABS, WALLS AND JOINTS NOT EXPOSED TO WEATHER OR EARTH..........¾"
9. CONFORM TO ACI 301, SECTION 3.3.2.7. FOR TYPICAL REINFORCEMENT SPLICES. USE CLASS B SPLICES UNLESS NOTED OTHERWISE. MECHANICAL CONNECTIONS MAY BE USED WHEN APPROVED BY THE ENGINEER. THE SPLICES INDICATED ON INDIVIDUAL SHEETS SHALL CONTROL OVER THE SCHEDULE.
10. CONFORM TO ACI 301 SECTION 3.3.2.8 "FIELD BENDING OR STRAIGHTENING". BAR SIZES 3 THROUGH 5 MAY BE FIELD BENT COLD THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS. DO NOT BEND BARS TWICE.
11. ALL TIES SHALL BE CONTINUOUS AND TERMINATE IN 135° HOOKS.

CONCRETE REINFORCEMENT SCHEDULES:

CLASS B SPLICE LENGTH OF HORIZONTAL BOTTOM BARS & VERTICAL BARS				
	F'c IN PSI @28 DAYS			
BAR SIZE	3,500	4,000	4,500	5,000
#3	20"	19"	18"	17"
#4	27"	25"	24"	23"
#5	33"	31"	30"	28"
#6	40"	37"	35"	34"
#7		54"		
#8		62"		
#9		70"		

CLASS B SPLICE LENGTH OTHER* BARS				
	F'c IN PSI @28 DAYS			
BAR SIZE	3,500	4,000	4,500	5,000
#3	26"	25"	23"	22"
#4	35"	33"	31"	29"
#5	43"	41"	38"	36"
#6	52"	49"	46"	44"
#7		71"		
#8		81"		
#9		91"		

NOTES:
1. * OTHER INDICATES HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE PLACED BELOW.
2. TABLE BASED ON ASTM A615 GRADE 60 STEEL.
3. TABLE BASED ON NORMAL WEIGHT CONCRETE, UNCOATED OR ZINC–COATED REINFORCEMENT.
4. TABLE INDICATES MINIMUM LAP UNLESS NOTED OTHERWISE.
5. PROVIDE MINIMUM CLEAR SPACING BETWEEN BARS OF 2 TIMES BAR DIAMETER AND MINIMUM CLEAR COVER OF BAR DIAMETER.
6. CLASS A SPLICES MAY BE USED BY CONTRACTOR AS NEEDED WHERE SPECIFICALLY REVIEWED AND APPROVED BY EOR.

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY

525 UNION AVE. - NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

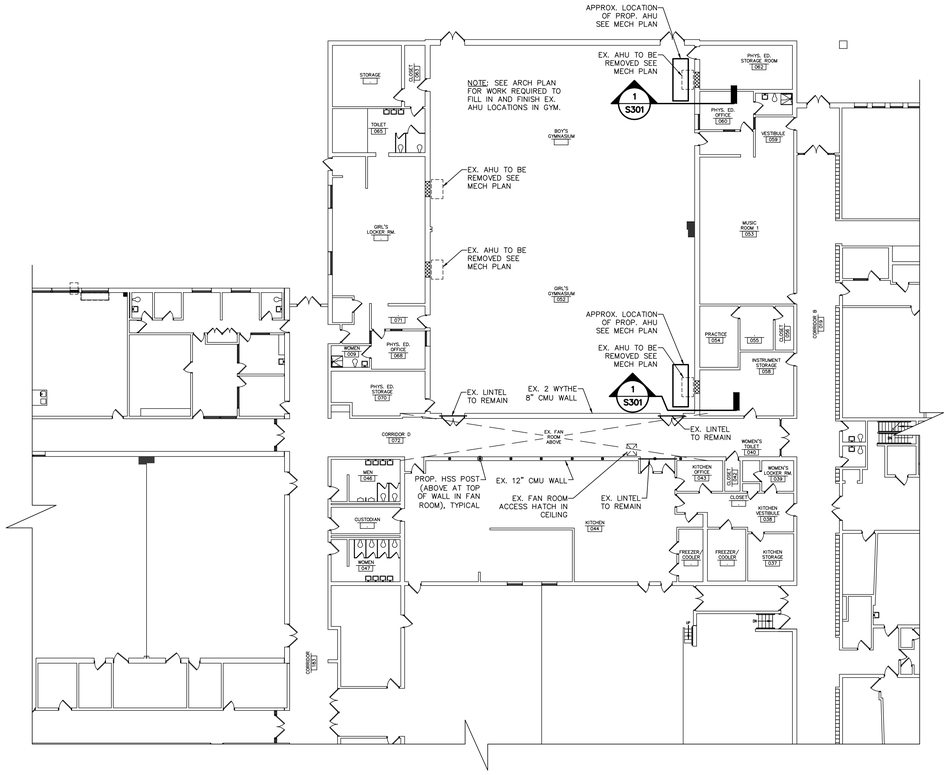
DATE: 11/12/2024

DRAWING NAME:

STRUCTURAL NOTES

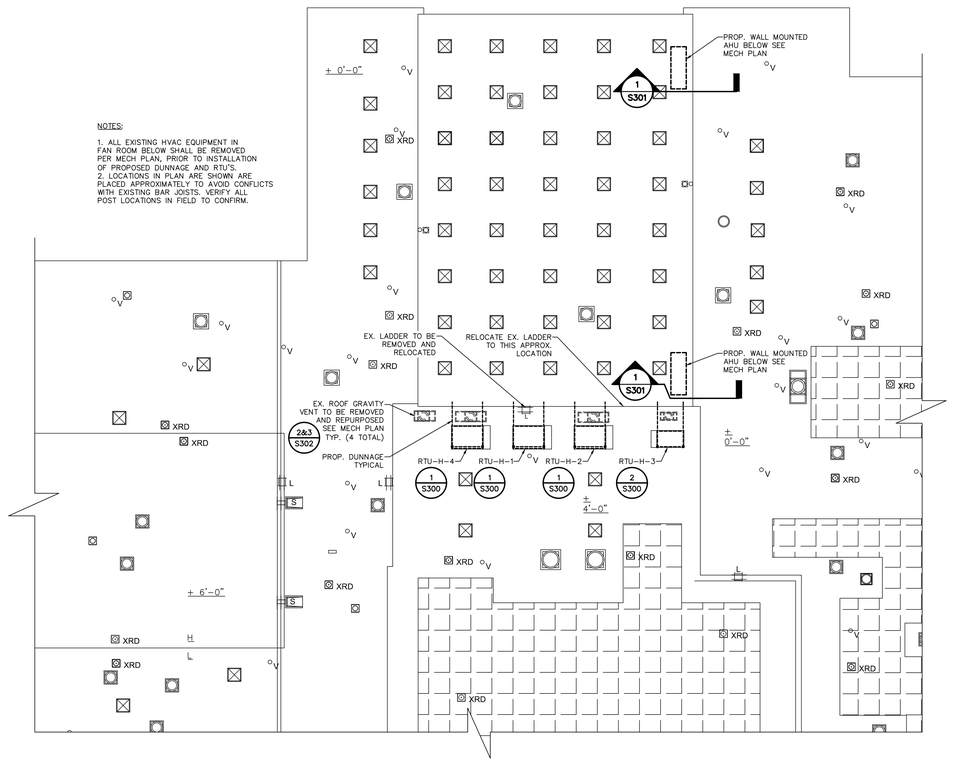
DRAWING NUMBER:

S001



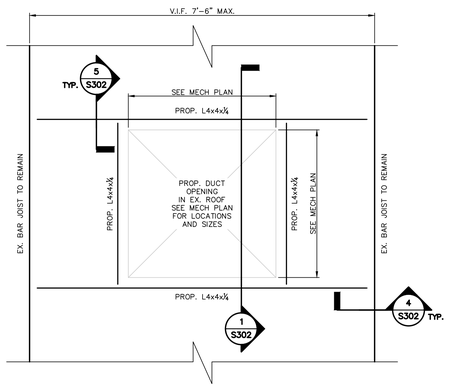
1 S101 PARTIAL 1ST FLOOR PLAN

SCALE: 1/16" = 1'



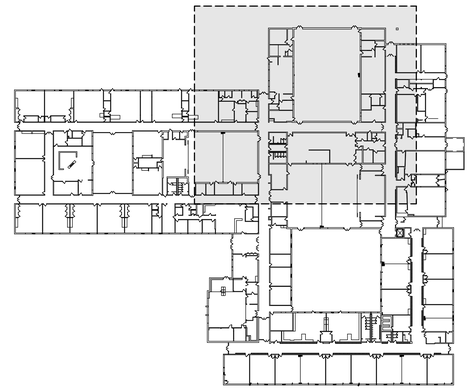
2 S101 PARTIAL ROOF PLAN

SCALE: 1/16" = 1'



3 S101 TYP. PROP. MECHANICAL ROOF OPENING PLAN VIEW

SCALE: NOT TO SCALE



4 S101 KEY PLAN

SCALE: NOT TO SCALE

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY

525 UNION AVE. - NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

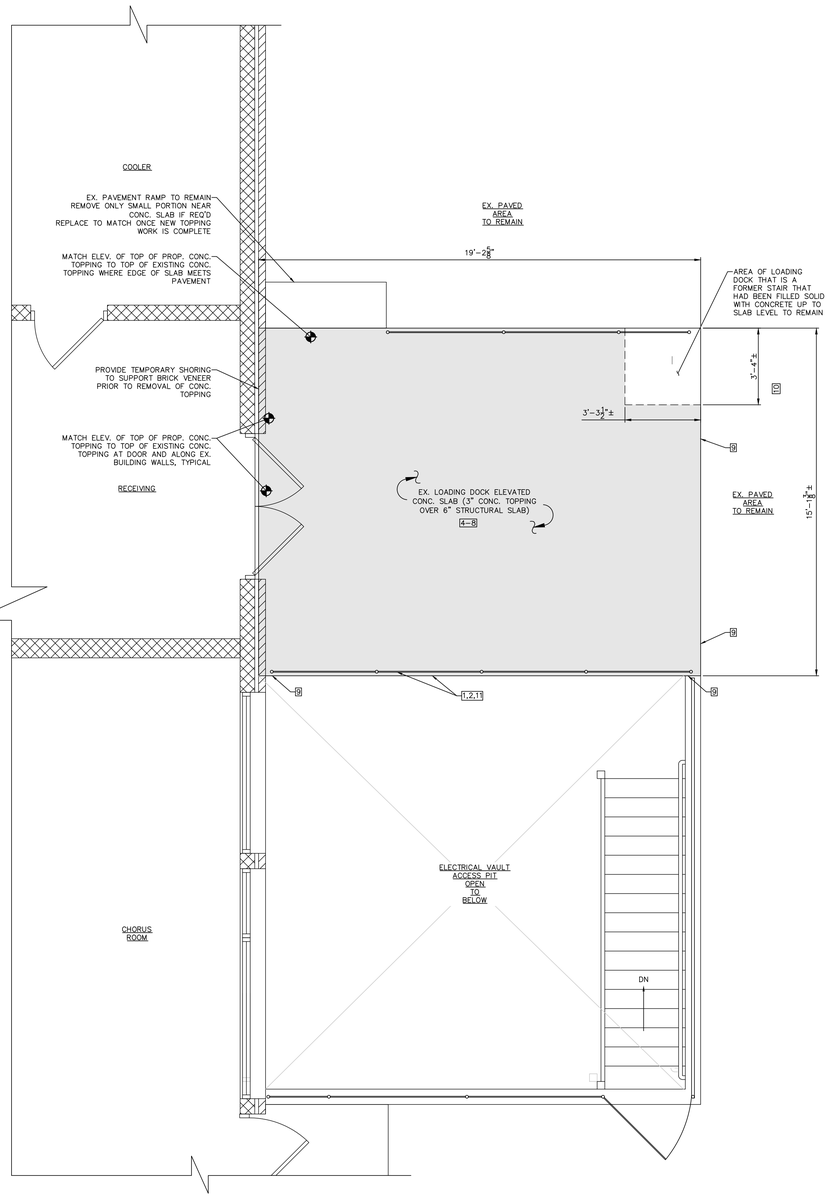
DATE: 11/12/2024

DRAWING NAME:

1ST FLOOR & ROOF DUNNAGE & HVAC SUPPORT PLANS

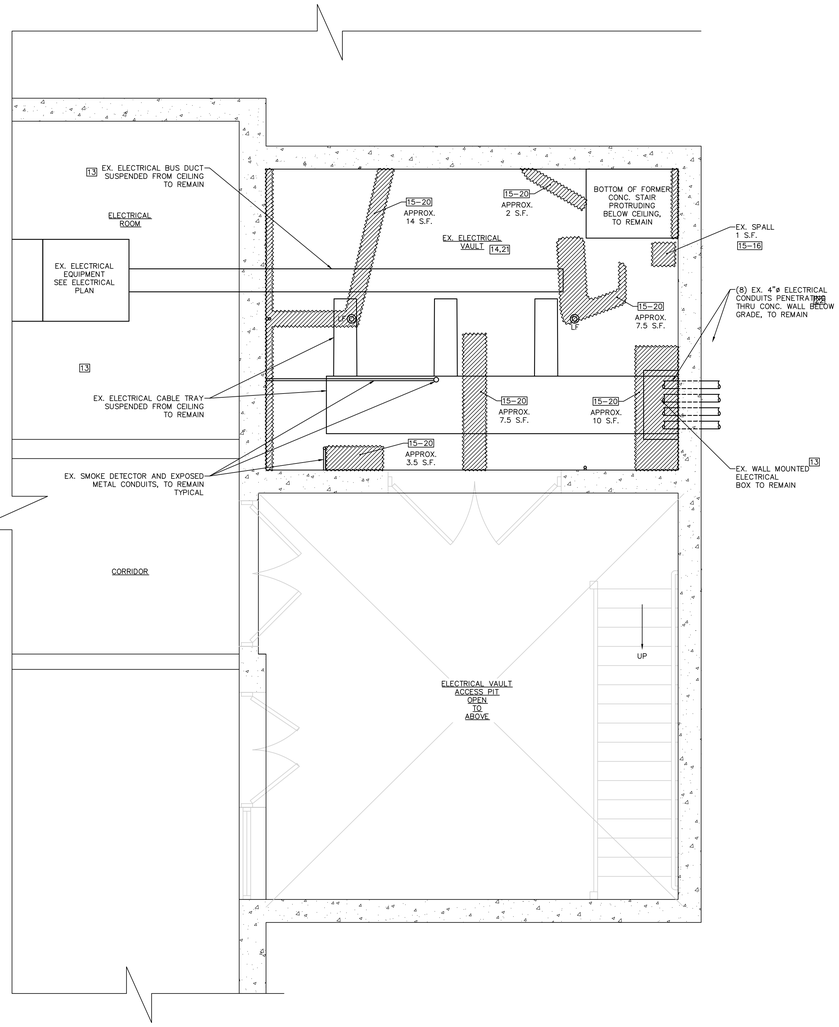
DRAWING NUMBER:

S101



1 S102 PARTIAL 1ST FLOOR PLAN AT LOADING DOCK

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



2 S102 PARTIAL REFLECTED CEILING PLAN

SCALE: 3/8" = 1'-0" (ELECTRICAL VAULT ONLY)

NOTES:

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH REPRESENTATIVES OF NEWBURGH CENTRAL SCHOOL DISTRICT.

2. ACCESS TO INTERIOR OF ELECTRICAL VAULT SHALL ONLY OCCUR WHEN SCHEDULED WITH REPRESENTATIVES OF THE NEWBURGH SCHOOL DISTRICT AND LABELLA ASSOCIATES.

3. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CENTRAL HUDSON GAS AND ELECTRIC AND OSHA STANDARDS. ALL SAFETY MEASURES WILL BE STRICTLY ADHERED TO WITHOUT EXCEPTION.

5. PRIOR TO ANY ENTRY INTO OR WORK INSIDE THE EXISTING ELECTRICAL VAULT, ELECTRIC SERVICE TO THE BUILDING WILL BE SUSPENDED AND ALL EXISTING ELECTRICAL EQUIPMENT SHALL BE DISCHARGED BY REPRESENTATIVES OF CENTRAL HUDSON GAS AND ELECTRIC. SEE ELECTRICAL PLANS FOR TEMPORARY POWER REQUIREMENTS TO BE UTILIZED DURING SUSPENSION OF ELECTRICAL SERVICE.

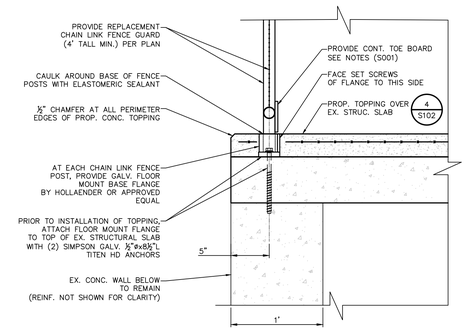
6. NO EXISTING FOUNDATION CONCRETE REINFORCEMENT SHALL BE CUT OR DAMAGED BY PROPOSED WORK WITHOUT WRITTEN APPROVAL OF PROJECT STRUCTURAL ENGINEER.

7. ALL SPECIFIED PRODUCTS SHALL BE INSTALLED IN STRICT ADHERENCE WITH MANUFACTURER SPECIFICATIONS. CONTRACTOR SHALL SCHEDULE PRESENTATION/S FOR PERSONNEL AND FIELD ADHESION TESTS WITH LOCAL SIKA REPRESENTATIVE TO ENSURE THAT PRODUCTS ARE INSTALLED PROPERLY. LOCAL SIKA REPRESENTATIVE: DAVID J. MASTAY (413) 222-9612.

8. SUBSTITUTIONS OF SPECIFIED PRODUCTS SHALL ONLY BE PERMITTED WITH WRITTEN APPROVAL OF STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMITTED REQUESTS AND TECHNICAL SPECIFICATIONS FOR SUBSTITUTIONS TO STRUCTURAL ENGINEER NO MORE THAN TWO WEEKS PRIOR TO PURCHASE OF PRODUCTS.

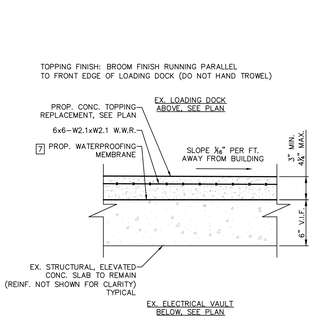
REPAIR MATERIAL QUANTITY SCHEDULE	
TYPE OF REPAIR	QUANTITIES
CONCRETE SPALL W/ CORRODED REBAR	11.5 S.F. OF SPALL WITH 70" OF REBAR
CRACKS SMALLER THAN ¼" WIDE	25 L.F. OF CRACKS (¾" DEEP)
CRACKS ¼" TO 2" WIDE	21 L.F. CRACKS (2" WIDE, 1" DEEP)

NOTE: QUANTITIES SHOWN ARE ESTIMATES BASED ON LIMITED VISUAL INSPECTION. 30% OVERAGES HAVE BEEN ADDED TO THESE ESTIMATES TO ACCOUNT FOR CONDITIONS IN THE FIELD THAT MAY BE INCONSISTENT WITH ESTIMATES.



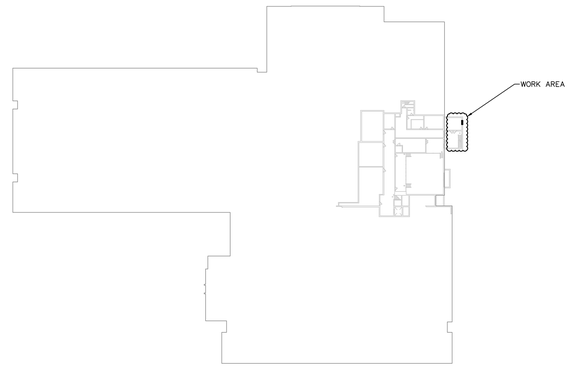
3 S102 TYP. SECTION CHAIN LINK FENCE GUARD

SCALE: 1½" = 1'-0"



4 S102 TYP. SECTION AT ELEVATED CONC. SLAB

SCALE: 1½" = 1'-0"



5 S102 BASEMENT KEY PLAN

SCALE: NOT TO SCALE

LEGEND	
EX. CONC. FOUNDATION TO REMAIN	
EX. CONC. FREEZER FOUNDATION TO REMAIN	
EX. CMU EXTERIOR WALL WITH EX. BRICK VENEER TO REMAIN	
EX. CMU WALL TO REMAIN	
PROP. CONC. TOPPING AREA OF EX. LOADING DOCK SLAB TO BE REMOVED & REPLACED	
EX. CEILING MOUNTED LIGHT FIXTURE TO REMAIN	LF
EX. CHAINLINK FENCE GUARD	
AREAS OF VAULT CEILING IDENTIFIED AS REQUIRING REPAIR BY VISUAL INSPECTION	
SEE ASSOCIATED SCOPE OF WORK	3 1,2,3

SCOPE OF WORK:

1. REMOVE EXISTING CHAIN LINK FENCE GUARD AT EDGE OF LOADING DOCK.
2. INSTALL TEMPORARY FALL BARRIER PROTECTION, PER OSHA STANDARD AND REGULATIONS, ALONG EDGE OF SLAB AT ACCESS PIT.
3. INSIDE THE VAULT, THERE ARE LIGHT FIXTURES MOUNTED TO THE CEILING. THE CONDUITS FEEDING THESE VAULTS ARE INSIDE THE CONCRETE SLAB. PRIOR TO ANY DEMOLITION OF SLAB, LOCATE AND TURN OFF ELECTRICAL BREAKER/S TO ENSURE THAT ANY ELECTRIC WIRES INSIDE SLAB ARE DISCHARGED.
4. CAREFULLY REMOVE EXISTING 3"± OF CONCRETE TOPPING MAKING SURE NOT TO DAMAGE 6" STRUCTURAL CONCRETE SLAB. DO NOT REMOVE ANY CONCRETE FROM FORMER STAIR SECTION OF SLAB AREA. ONCE REMOVAL OF TOPPING IS COMPLETE, REPAIRS TO VAULT CEILING CAN COMMENCE (SEE #12)
5. THOROUGHLY CLEAN AND PREPARE TOP OF EXISTING STRUCTURAL CONCRETE SLAB AND IDENTIFY CRACKS AND DAMAGED AREAS.
6. FOR CRACK SMALLER THAN ¼" REPAIR WITH SIKADUR CRACK FIX. REPAIR LARGER AREAS, UP TO 2" THICK, WITH SIKADUR 32 HI-MOD EPOXY BONDING AGENT AND SIKAQUICK VOH (OR SIKAQUICK VOH LD). FOR AREAS LARGER THAN 2" CONTACT STRUCTURAL ENGINEER AND SCHEDULE A SITE INSPECTION FOR EVALUATION AND RECOMMENDATIONS.
7. ONCE REPAIR PRODUCTS HAVE FULLY CURED, APPLY SIKALASTIC HLM 5000 GC LIQUID APPLIED WATERPROOFING MEMBRANE SYSTEM OVER SURFACE OF ENTIRE STRUCTURAL SLAB AND UP THE FACE OF THE BUILDING WALL TO THE TOP OF THE TOPPING (3"-4¾" THICK).
8. ONCE WATERPROOFING MEMBRANE HAS FULLY CURED, REPLACE CONCRETE TOPPING PER DETAIL. ELEVATION OF TOP OF TOPPING SHOULD MATCH EXISTING AS NEAR AS POSSIBLE WHILE PROVIDING A ¼" PER FOOT SLOPE AWAY FROM BUILDING. COORDINATE TOPPING INSTALLATION AT FRONT EDGE WITH MANUFACTURER SPECIFICATIONS FOR PROPOSED DOCK BUMPER. 4 S102
9. REPAIR EXTERIOR OF VAULT WALLS. AT LOCATIONS WHERE REPAIR IS LESS THAN 1½" THICKNESS, REPAIR WITH SIKAQUICK VOH BY HAND APPLICATION. REPAIR AREAS 1½" THICK OR LARGER PROVIDE FORMWORK AND INSTALL SIKACRETE 211 SCC PLUS. APPLY SIKADUR 32 HI-MOD EPOXY BONDING AGENT TO ALL EXISTING CONCRETE SURFACES BEFORE INSTALLATION OF SIKAQUICK VOH OR SIKACRETE 211 SCC PLUS. QUANTITIES FOR WALL REPAIRS SHALL BE VERIFIED IN THE FIELD.
10. ONCE WALL REPAIRS HAVE FULLY CURED, INSTALL (1) B612-123-AD-1 LOADING DOCK BUMPER BY LOADING DOCK SUPPLY LLC OR APPROVED EQUAL. ATTACH TO CONCRETE WITH (9) ¾"ø x 9¾", HILTI HIT-Z-R 316 SS ANCHORS RODS DRILLED & GROUTED INTO CONCRETE WITH HILTI HIT-HY 200-A V3 INJECTABLE MORTAR. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
11. INSTALL NEW CHAIN LINK FENCE GUARD ALONG EDGE OF SLAB FACING VAULT ACCESS PIT PER DETAIL. 3 S102
12. SEE NOTES FOR SUSPENSION OF ELECTRIC SERVICE PRIOR TO ANY REPAIRS OF VAULT CEILING.
13. PROVIDE PROTECTIVE BARRIERS COVERED WITH PLASTIC DROP CLOTHS TO PREVENT ANY DEBRIS FALLING OR FURTHER MOISTURE FALLING ON ANY ELECTRICAL EQUIPMENT, WIRE, CABLE, TRAYS, OR BUSSES INSIDE VAULT.
14. REMOVE ANY FLAKING PAINT AND CORROSION FROM CEILING.
15. HAMMER SOUND TEST AFFECTED AREAS OF CONCRETE TO DETERMINE WHICH AREAS HAVE DETERIORATED TO A POINT WHERE REMOVAL AND REPAIR ARE REQUIRED. CAREFULLY HAND CHISEL AND REMOVE ANY CONCRETE THAT FAILS SOUND TESTING. REMOVE CONCRETE ⅜" MIN. AROUND ANY EXPOSED REBAR MECHANICALLY CLEAN ANY EXPOSED REBAR. NOTIFY ENGINEER IF ANY REBAR HAS LOST MORE THAN 15% OF ITS GROSS CROSS SECTION. IF MORE THAN 15% SECTION LOSS, ADDITIONAL SPLICE BAR IS REQUIRED. CONTACT STRUCTURAL ENGINEER AND SCHEDULE SITE INSPECTION TO APPROVE TYPES OF REPAIRS REQUIRED FOR EACH DAMAGED AREA.
16. PRIME ALL EXPOSED STEEL REINFORCEMENT WITH SIKA ARMATEC 110 EPOCHEM.
17. APPLY SIKADUR 32 HI-MOD EPOXY BONDING AGENT TO EXISTING CONCRETE AT ALL REPAIR LOCATIONS.
18. APPLY SCRUB COAT OF SIKAQUICK VOH OR SIKAQUICK VOH LD TO CONCRETE SUBSTRATE PRIOR TO INSTALLATION OF REPAIR MORTARS.
19. REPAIR CRACKS SMALLER THAN ¼" WIDE WITH SIKADUR CRACK FIX.
20. REPAIR AREAS ¼" TO 2" WIDE/THICK WITH SIKAQUICK VOH OR SIKAQUICK VOH LD.
21. ONCE ALL REPAIR PRODUCTS HAVE FULLY CURED, APPLY TWO (2) COATS OF MASONRY PAINT TO ENTIRE VAULT CEILING. MATCH EXISTING COLOR AS NEAR AS POSSIBLE.
22. REMOVE COVER FROM EXISTING ELECTRICAL BOX TO EXPOSE CONDUIT PENETRATIONS THROUGH WALL. SCHEDULE SITE INSPECTION WITH ARCHITECT TO EVALUATE EXISTING WATERPROOFING. REMOVE EXISTING WATERPROOFING AROUND CONDUITS IN INTERIOR SIDE OF WALL AS DEEP INTO WALL AS POSSIBLE (2" MIN.). INSTALL SIKA LEAKMASTER LV-Z SWELLING SEALANT AROUND EACH CONDUIT AS DEEP AS POSSIBLE. IF POSSIBLE, SEALANT SHOULD FILL FULL SPACE AROUND EACH CONDUIT FOR ENTIRE THICKNESS OF EXISTING 12" THICK WALL.
23. PRIOR TO RESTORING ELECTRICITY TO VAULT, SCHEDULE FINAL SITE INSPECTION WITH STRUCTURAL ENGINEER, ELECTRICAL ENGINEER, AND ARCHITECT.

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

DATE: 11/12/2024

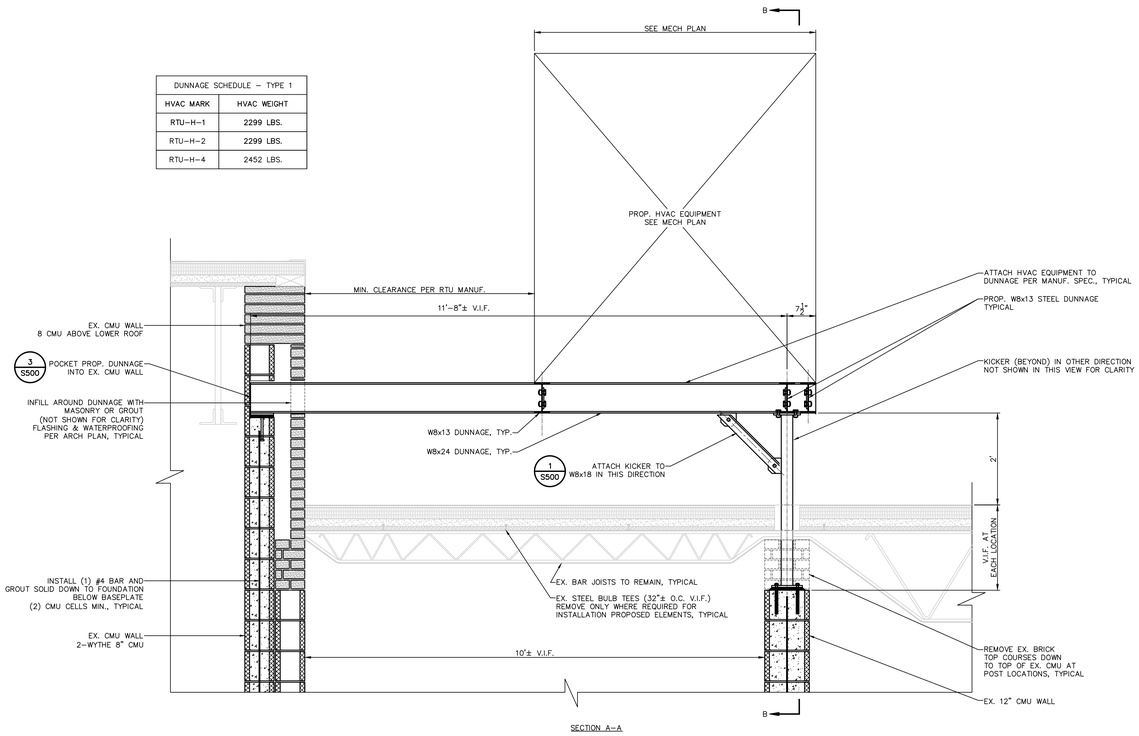
DRAWING NAME:

ELECTRICAL VAULT/LOADING DOCK CEILING & SLAB REPAIR PLAN

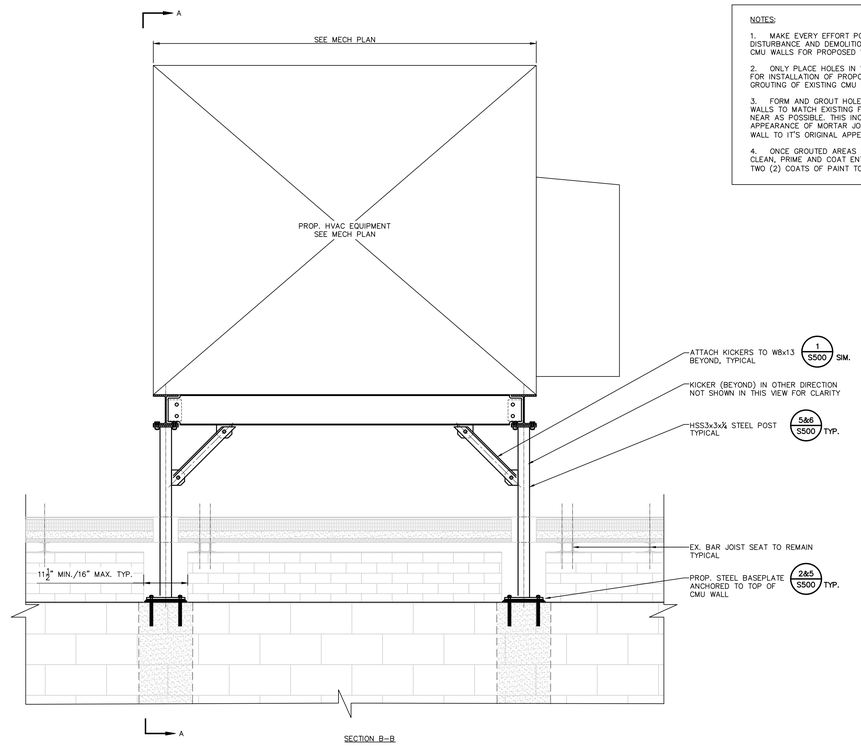
DRAWING NUMBER:

S102

DUNNAGE SCHEDULE – TYPE 1	
HVAC MARK	HVAC WEIGHT
RTU–H–1	2299 LBS.
RTU–H–2	2299 LBS.
RTU–H–4	2452 LBS.



SECTION A–A



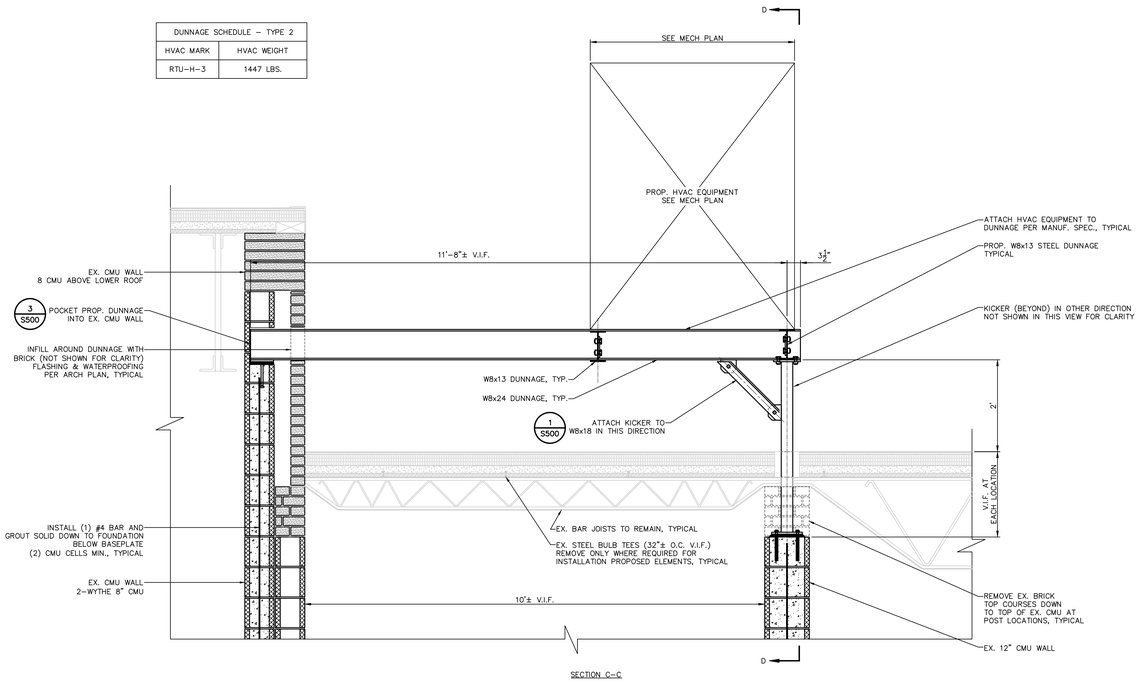
SECTION B–B

NOTES:

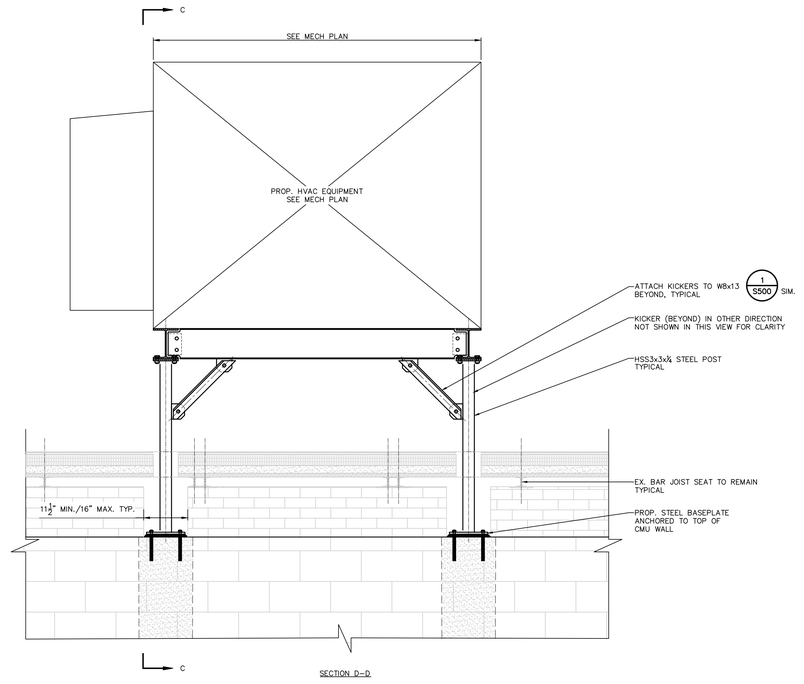
1. MAKE EVERY EFFORT POSSIBLE TO MINIMIZE DISTURBANCE AND DEMOLITION OF EXISTING CMU WALLS FOR PROPOSED WORK.
2. ONLY PLACE HOLES IN WALL AS REQUIRED FOR INSTALLATION OF PROPOSED DUNNAGE AND GROUTING OF EXISTING CMU CELLS.
3. FORM AND GROUT HOLES IN INTERIOR CMU WALLS TO MATCH EXISTING FINISH OF WALL AS NEAR AS POSSIBLE. THIS INCLUDES THE FINISHED APPEARANCE OF MORTAR JOINTS THAT RETURNS WALL TO IT'S ORIGINAL APPEARANCE.
4. ONCE GROUTED AREAS HAVE CURED COMPLETELY, CLEAN, PRIME AND COAT ENTIRE INTERIOR WALL WITH TWO (2) COATS OF PAINT TO MATCH EXISTING COLOR.

1 S300 **DUNNAGE SECTION - TYPE 1**
SCALE: 3/4" = 1'

DUNNAGE SCHEDULE – TYPE 2	
HVAC MARK	HVAC WEIGHT
RTU–H–3	1447 LBS.



SECTION C–C



SECTION D–D

2 S300 **DUNNAGE SECTION - TYPE 2**
SCALE: 3/4" = 1'

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND STREET
NEWBURGH, NY 12550

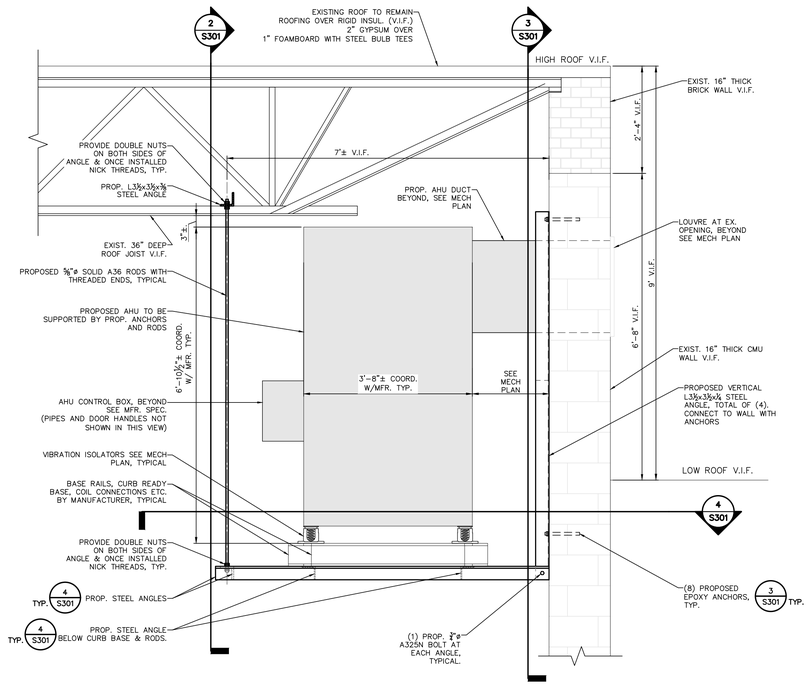
NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVE. - NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

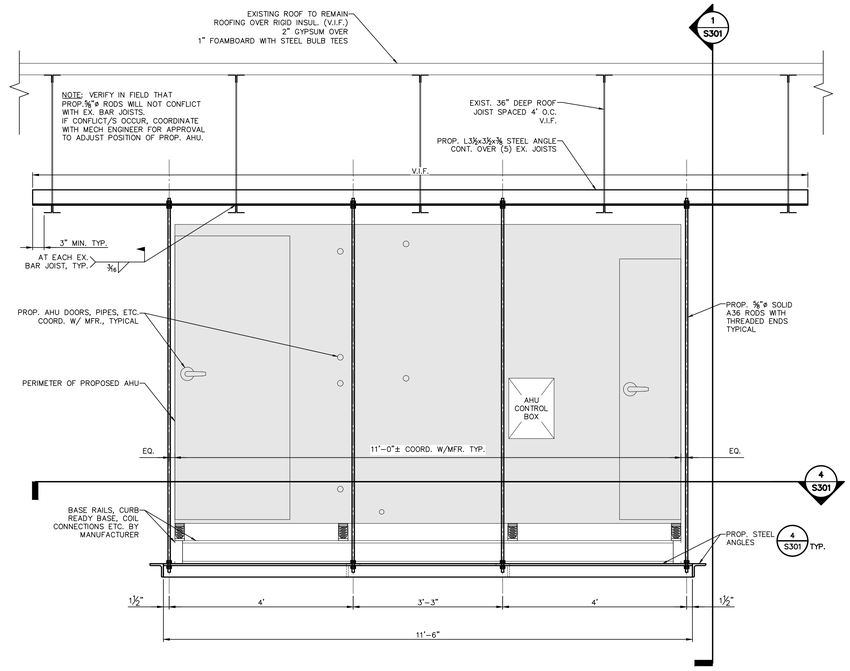
SED #: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: KSA
REVIEWED BY: LAC
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: SECTIONS
DRAWING NUMBER: S300

GYM AHU STRUCTURAL SCHEDULE	
HVAC MARK	HVAC WEIGHT
T-5	2192 LBS.
T-6	2192 LBS.



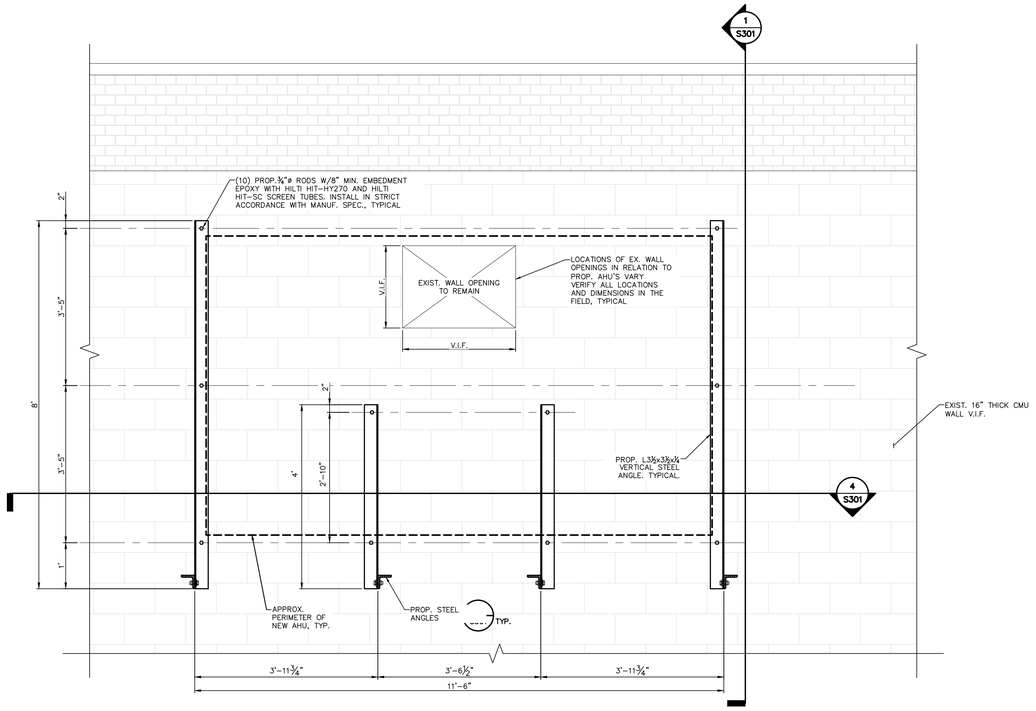
1 S301 SECTION AT NEW WALL MOUNTED UNIT

SCALE: 3/4" = 1'



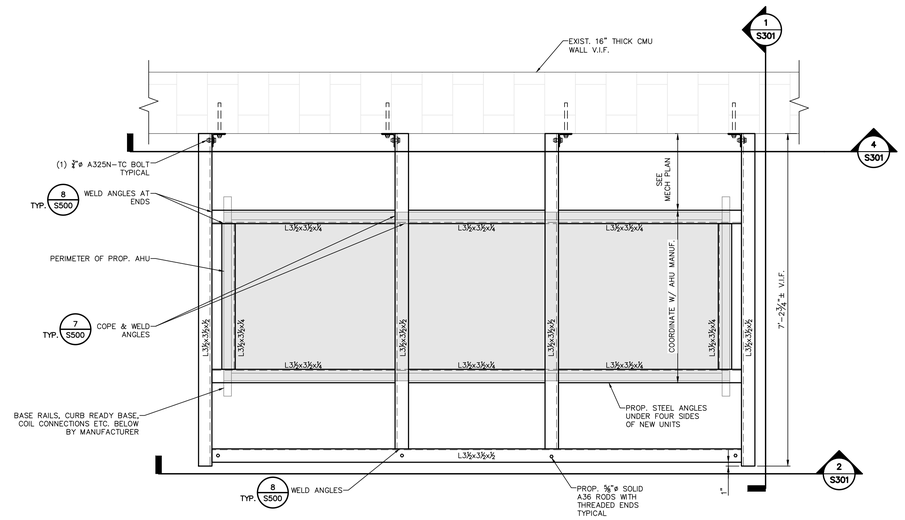
2 S301 ELEVATION AT NEW UNIT MOUNTED TO WALL

SCALE: 3/4" = 1'



3 S301 ELEVATION AT NEW UNIT MOUNTED TO WALL

SCALE: 3/4" = 1'



4 S301 PLAN VIEW OF NEW UNIT SUPPORT

SCALE: 3/4" = 1'

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY

525 UNION AVE. - NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: KSA

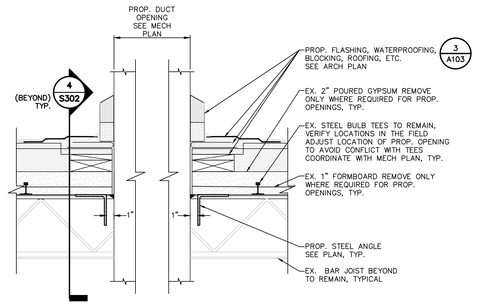
REVIEWED BY: LAC

ISSUED FOR: BID

DATE: 11/12/2024

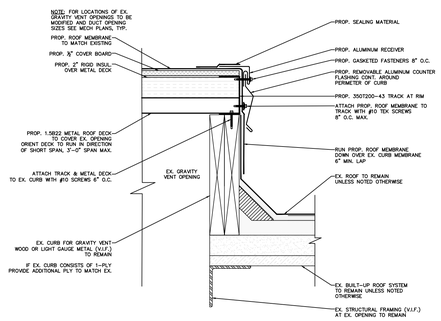
DRAWING NAME: **SECTIONS**

DRAWING NUMBER: **S301**



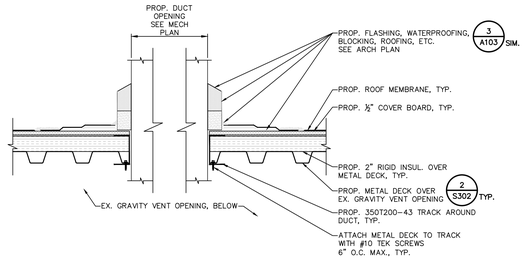
1 S302 TYP. SECTION THRU MECH OPENING

SCALE: NOT TO SCALE



2 S302 TYP. SECTION THRU EX. GRAVITY VENT ROOF CURB

SCALE: NOT TO SCALE



3 S302 TYP. SECTION THRU PROP. MECH OPENING AT EX. GRAVITY VENT

SCALE: NOT TO SCALE

4 S302 TYP. SECTION AT CONNECTION

SCALE: NOT TO SCALE

5 S302 TYP. SECTION AT CONNECTION

SCALE: NOT TO SCALE

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY

525 UNION AVE. - NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

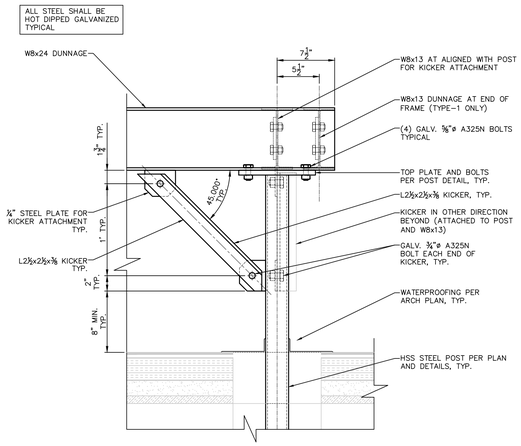
DATE: 11/12/2024

DRAWING NAME:

SECTIONS

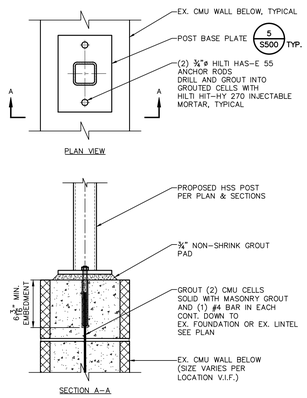
DRAWING NUMBER:

S302



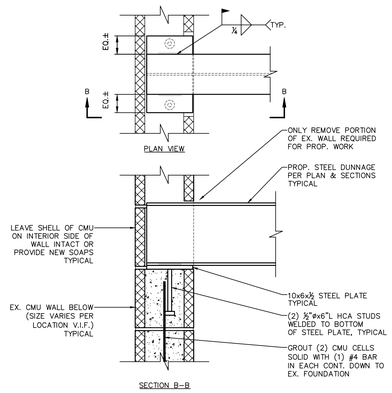
1 S500 **TYP. POST WITH KICKERS**

SCALE: 1½" = 1'



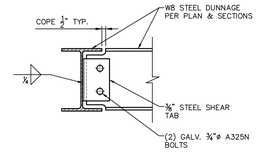
2 S500 **TYP. BASEPLATE TO CMU CONNECTION**

SCALE: 1½" = 1'



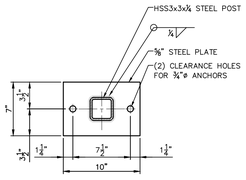
3 S500 **TYP. W8 TO CMU CONNECTION**

SCALE: 1½" = 1'



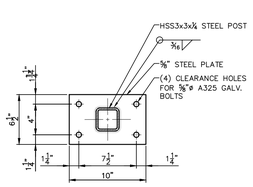
4 S500 **TYP. W8 TO W8 CONNECTION**

SCALE: 1½" = 1'



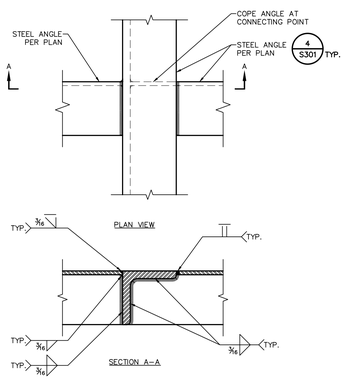
5 S500 **TYP. BASEPLATE FOR POST ON CMU**

SCALE: 1½" = 1'



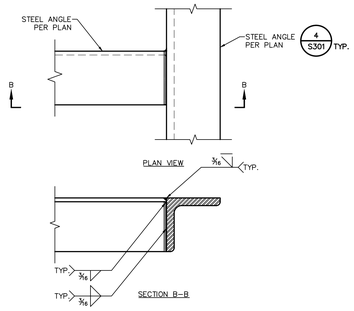
6 S500 **TYP. POST TOP PLATE**

SCALE: 1½" = 1'



7 S500 **WELDED ANGLE CONNECTION 1**

SCALE: 3" = 1'



8 S500 **WELDED ANGLE CONNECTION 2**

SCALE: 3" = 1'

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY

525 UNION AVE. - NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: KSA

REVIEWED BY: LAC

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

DETAILS

DRAWING NUMBER:

S500

DRAWING SYMBOLS

CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
GHR	GLYCOL HOT WATER RETURN
GHS	GLYCOL HOT WATER SUPPLY
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
C	CONDENSATE
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
	DIRECTION OF FLOW
DN	DIRECTION OF PITCH
R	REFRIGERANT
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RG	REFRIGERANT GAS
SV	STEAM VENT
HPLR	HEAT PUMP LOOP RETURN
HPLS	HEAT PUMP LOOP SUPPLY
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
MU	MAKE-UP WATER
NG	NATURAL GAS
PC	PUMPED CONDENSATE
VAC	VACUUM
IW	INDIRECT WASTE

EXISTING DUCTWORK, PIPE, EQUIPMENT

NEW DUCTWORK, PIPE, EQUIPMENT

DUCTWORK, PIPE, EQUIPMENT TO BE REMOVED

PIPE TURNED UP

PIPE TURNED DOWN

BRANCH OFF TOP OF PIPE

BRANCH OFF BOTTOM OF PIPE

REDUCER

PIPE BREAK

BALL VALVE

BUTTERFLY VALVE

GATE VALVE

SHUT OFF VALVE (GATE, BALL, OR BUTTERFLY - REFER TO SPECS)

CHECK VALVE

BALANCE VALVE

ANGLE VALVE

PRESSURE REDUCING VALVE

STEAM TRAP

MOTOR OR SOLENOID CONTROL VALVE

MOTOR OR SOLENOID CONTROL VALVE (3-WAY)

TRIPLE DUTY VALVE

RELIEF VALVE

STRAINER

UNION

PRESSURE GAUGE

PUMP

EQUIPMENT TO BE REMOVED

VRF FAN COIL CASSETTE UNIT

REMOVE TO THIS POINT)

NEW CONNECTION TO EXISTING

A / M-2 — SECTION CALLOUT

A / M-2 — DETAIL NUMBER

1 — DEMOLITION KEYNOTE

1 — KEYNOTE

RETURN AIR

SUPPLY AIR

18/8 — DUCT (DIMENSIONS SHOWN IN DUCT. DIMENSIONS IN INCHES.)

18/8 — DUCT (DIMENSIONS SHOWN BY LEADER. DIMENSIONS IN INCHES.)

FLEX DUCT

DUCT SECTION - SUPPLY AIR

DUCT SECTION - EXHAUST AIR

DUCT SECTION - RETURN AIR

VOLUME DAMPER

14" Ø — 14" ROUND DUCT

18/8 — 18" x 8" FLAT OVAL DUCT

NOTE:
NOT ALL SYMBOLS, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/ OR EXCLUSIONS OF ANY PARTICULAR ITEM FROM THIS PROJECT.

18/8 — LINED DUCT (DIM. IS INTERNAL)

MITERED ELBOW W/ TURNING VANES

WALL OR DUCT MOUNTED SUPPLY GRILLE

WALL OR DUCT MOUNTED RETURN OR EXHAUST GRILLE

FD / AD — FIRE DAMPER ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

SD / AD — SMOKE DAMPER ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

F/S / AD — COMBINATION FIRE / SMOKE DAMPER ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT

M — MOTOR OPERATED DAMPER

T — TEMPERATURE SENSOR

S — SENSOR

H — HUMIDISTAT

CO2 — CARBON DIOXIDE SENSOR

EXHAUST GRILLE

SUPPLY DIFFUSER

RETURN GRILLE

8 / 750 — REGISTER OR GRILLE - TOP NUMBER REPRESENTS TAG, SEE SCHEDULE: BOTTOM NUMBER REPRESENTS CFM.

A / 125 — DIFFUSER - LETTER REPRESENTS TAG, SEE SCHEDULE: NUMBER REPRESENTS CFM

GENERAL NOTES

DUCTWORK GENERAL NOTES

1 HVAC CONTRACTOR TO PROVIDE CRANE AND NECESSARY EQUIPMENT TO HOIST ROOF MOUNTED HVAC EQUIPMENT FROM SITE TO FINAL ROOF LOCATION. GENERAL CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS REQUIRED TO ACCOMMODATE HVAC EQUIPMENT OPENINGS AND SET CURBS. HVAC CONTRACTOR TO COORDINATE EXACT LOCATION OF PENETRATIONS WITH G.C. AND SHALL ASSIST WITH SETTING ALL HVAC EQUIPMENT ROOF CURBS. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY CAP OF ALL ROOF PENETRATIONS IN INTERIM FROM TIME PENETRATIONS ARE COMPLETE TO TIME EQUIPMENT IS SET ON ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL EQUIPMENT CURBS AND OTHER HVAC RELATED ROOF PENETRATIONS. HVAC CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY CAP WHEN EQUIPMENT IS SET IN PLACE.

2 PROVIDE 45 DEGREE SHOE-TAP FITTING AND VOLUME DAMPER AT ALL BRANCH DUCT TAKE-OFFS (TOP, SIDE AND BOTTOM) FOR SUPPLY, RETURN AND EXHAUST AIR, UNLESS SHOWN OR NOTED OTHERWISE. VOLUME DAMPERS SHALL BE OMITTED FROM VAV INLET BRANCH DUCTWORK.

3 COORDINATE HVAC INSTALLATION WITH STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.

4 INSULATE OR LINE DUCTWORK AS SPECIFIED IN THE MECHANICAL INSULATION AND METAL DUCTS SPECIFICATIONS OR NOTED ON DRAWINGS. NOTE THAT DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE NET CLEAR DIMENSIONS.

5 ALL 90 DEGREE RECTANGULAR ELBOWS AND DUCTWORK TEES SHALL BE HARD MITERED WITH FACTORY TURNING VANES. TURNING VANES SHALL BE OMITTED FROM AIR TRANSFER DUCT ELBOWS.

6 ALL DUCTWORK PASSING THROUGH NON-FIRE RATED WALLS TO BE SEALED AROUND PERIMETER (BOTH SIDES) WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.

7 INLET OF VAV BOX TO BE ARRANGED SUCH THAT THERE IS NO RESTRICTION OF AIRFLOW. THERE SHALL BE A MINIMUM OF THREE DUCT DIAMETERS OF STRAIGHT DUCT (FLEX DUCT WILL NOT BE PERMITTED) UPSTREAM OF THE INLET. INLET DUCT SIZE TO BE SAME SIZE AS VAV BOX INLET COLLAR UNLESS NOTED OTHERWISE. REFER TO VAV BOX INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

8 HVAC CONTRACTOR TO PROVIDE ALL WALL & ROOF PENETRATIONS 8"x8" OR SMALLER. ALL PENETRATIONS LARGER THAN 8"x8" IS THE RESPONSIBILITY OF THE G.C. COORDINATE ALL 8"x8" OR LARGER PENETRATION LOCATIONS WITH G.C. LINTELS (BY G.C.) REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. PENETRATIONS AND LINTEL LOCATIONS TO BE COORDINATED WITH G.C. AND DOCUMENTED ON COORDINATION DRAWINGS.

9 BALANCING CONTRACTOR TO SET MINIMUM OUTSIDE AIR DAMPER POSITION TO MEET VENTILATION AIR QUANTITIES REQUIRED AS SHOWN ON PLANS OR LISTED IN EQUIPMENT SCHEDULES.

10 NATURAL GAS PIPING WHERE REQUIRED SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR, WHICH SHALL INCLUDE FINAL CONNECTIONS TO HVAC EQUIPMENT. COORDINATE ALL EQUIPMENT LOCATIONS THAT REQUIRE NATURAL GAS WITH THE PLUMBING CONTRACTOR.

11 ALL SUPPORT OF EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE STRUCTURAL STEEL WHERE REQUIRED IN ORDER TO SUPPORT EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES WHERE THE BUILDING STRUCTURE SPACING IS TOO GREAT TO ALLOW DIRECT SUPPORT. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMATION OF ALL SUPPORTS AND SHALL OBTAIN THE PROFESSIONAL SERVICE OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND FURNISH SEALED DRAWINGS AND DETAILS ILLUSTRATING SUCH SUPPORTS AND COMPLIANCE METHODS.

12 INSULATE ALL DUCTWORK PER NYS ENERGY CODE.

APPLICABLE CODES

1 BUILDING CODE OF NEW YORK STATE
2 ENERGY CODE OF NEW YORK STATE
3 MECHANICAL CODE OF NEW YORK STATE
4 FIRE CODE OF NEW YORK STATE
5 PLUMBING CODE OF NEW YORK STATE
6 ENERGY CONSERVATION CODE OF NEW YORK STATE
7 ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1
8 NATIONAL ELECTRIC CODE
9 NATIONAL FIRE CODE NFPA 13

EQUIPMENT DESIGNATIONS

ACU	AIR CONDITIONING UNIT
AHU	AIR HANDLING UNIT
AD	ACCESS DOOR
AS	AIR SEPARATOR
BDD	BACK DRAFT DAMPER
B	BOILER
CA	AIR COMPRESSOR
CAV	CONSTANT AIR VOLUME BOX
CC	COOLING COIL
CFP	CHEMICAL FEED PUMP
CH	CHILLER
CHP	CHILLED WATER PUMP
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM UNIT
CRU	CONDENSATE RETURN UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DHW	DOMESTIC WATER HEATER
EF	EXHAUST FAN
ET	EXPANSION TANK
FCU	FAN COIL UNIT
FP	FIRE PUMP
FT	FINNED TUBE
HC	HEATING COIL
HP	HEAT PUMP
HU	HUMIDIFIER
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
L	LOUVER
MAU	MAKE UP AIR UNITS
MD	MOTORIZED DAMPER
P	PUMP
PHC	PREHEAT COIL
PPU	PUMPING PACKAGED UNIT
PRG	GAS PRESSURE REGULATOR
PRV	PRESSURE REDUCING VALVE
R	REGISTER
RCP	RADIANT CEILING PANEL
RTU	ROOF TOP UNIT
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME BOX
VD	VOLUME DAMPER
VFD	VARIABLE SPEED DRIVE
WU-G	WINDOW UNIT MOUNTED IN GLASS
WU-W	WINDOW UNIT MOUNTED IN WALL
WS	WATER SOFTENER

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

ABBREVIATIONS

%	PERCENT
AC	ALTERNATING CURRENT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
AMB	AMBIENT
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APPROX	APPOROXIAMTE (LY)
AVG	AVERAGE
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BO	BOTTOM OF
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BV	BALANCING VALVE
CAP	CAPACITY
CIP	CAST IRON PIPE
CLG	CEILING
CLR	CLEAR
CO	CLEANOUT or CARBON MONOXIDE
COL	COLUMN
CONN	CONNECTION
CONC	CONCRETE
CONT	CONTINUOUS
CU FT	CUBIC FEET
CV	VALVE FLOW COEFFICIENT
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DETECTOR CHECK VALVE
DCW	DOMESTIC COLD WATER
DEMO	DEMOLISH or DEMOLITION
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWH	DOMESTIC WATER HEATER
DWV	DRAIN, WASTE, & VENT
DWG	DRAWING
(E)	EXISTING
ENGR	ENGINEER
EQ	EQUAL
EST	ESTIMATED
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
°F	DEGREES FAHRENHEIT
FA	FREE AREA
FIN	FINISHED
FL	FLOOR
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT OR FEET
FUT	FUTURE
GA	GAGE OR GAUGE
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HR	HOUR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	FREQUENCY
ID	DIAMTER, INSIDE
IN	INCH
INSUL	INSULATION
INT	INTERIOR
IPS	IRON PIPE SIZE
INV	INVERT
KW	KILOWATT
KWH	KILOWATT HOUR
LBS	POUNDS
LF	LINEAR FEET
LG	LENGTH
LOC	LOCATION
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MATL	MATERIAL
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPT	NATIONAL PIPE TREAD
NRS	NON-RISING STEM
NTS	NOT TO SCALE
OC	ON CENTER
OD	DIAMETER, OUTSIDE
OS&Y	OUTSIDE SCREW AND YOKE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PH	PHASE (ELECTRICAL)
PRESS	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GUAGE
PRV	PRESSURE REDUCING VALVE
RCVR	RECEIVER
RECIRC	RECIRCULATE
RHW	HOT WATER RE-CIRCULATION
RO	ROUGH OPENING
RPDA	REDUCED-PRESSURE DETECTOR ASSY.
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED-PRESSURE ZONE
SCH	STEAM CAPTURE HOOD
SPEC	SPECIFICATION
SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH (INCHES)
STD	STANDARD
SUCT	SUCTION
TSTAT	THERMOSTAT
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL CONTRACTOR
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TO	TOP OF
TYP	TYPICAL
V	VOLT
VAC	VACUUM
VAR	VARIABLE
VEL	VELOCITY
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WATT
W/	WITH
W/O	WITH OUT
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTER
WM	WATER METER
WPD	WATER PRESSURE DROP
WT	WEIGHT
WWP	WORKING WATER PRESSURE

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

MECHANICAL SHEET LIST

Sheet Number	Sheet Name	Drawn By	Approved By
M001	MECHANICAL LEGEND SHEET	DRM	MB
M002	VENTILATION TABLE	DRM	MB
MD101	FIRST FLOOR DEMOLITION PLAN	DRM	MB
MD102	SECOND FLOOR DEMOLITION PLAN	DRM	MB
MD103	ROOF DEMOLITION PLAN	DRM	MB
M101	FIRST FLOOR DUCTWORK PLAN	DRM	MB
M102	SECOND FLOOR DUCTWORK PLAN	DRM	MB
M103	ROOF EQUIPMENT PLAN	DRM	MB
M201	FIRST FLOOR PIPING	DRM	MB
M202	SECOND FLOOR PIPING	DRM	MB
MS01	MECHANICAL DETAILS	DRM	MB
M601	MECHANICAL SCHEDULES	DRM	MB
M701	MECHANICAL CONTROLS	DRM	MB

Grand total: 13

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

MECHANICAL LEGEND SHEET

DRAWING NUMBER:

M001

11/11/2024 4:01:03 PM

Room Name	Unit	Square Footage	Type	Occupancy Density/1000sf	Max Occupancy	OA/person	CFM/SF	Code OA (cfm)	Provided OA (cfm)
1 - Kindergarten	UV-1	986	Classroom	25	25	10	0.12	368.32	500
2 - Kindergarten	UV-2	370	Classroom	25	10	10	0.12	144.4	500
2A - Classroom	UV-2A	990	Classroom	25	25	10	0.12	368.8	210
3 - Kindergarten	UV-3	986	Classroom	25	25	10	0.12	368.32	500
4 - Kindergarten	UV-4	986	Classroom	25	25	10	0.12	368.32	500
5 - Kindergarten	UV-5	880	Classroom	25	22	10	0.12	325.6	500
6 - Kindergarten	UV-6	880	Classroom	25	22	10	0.12	325.6	500
7 - Kindergarten	UV-7	820	Classroom	25	21	10	0.12	308.4	470
8 - 1st Grade	UV-8	850	Classroom	25	22	10	0.12	322	470
9B - 1st Grade	UV-9A & UV-9B	1125	Classroom	25	29	10	0.12	425	470
10 - 1st Grade	UV-10	840	Classroom	25	21	10	0.12	310.8	470
11 - 1st Grade	UV-11	840	Classroom	25	21	10	0.12	310.8	470
12 - 1st Grade	UV-12	840	Classroom	25	21	10	0.12	310.8	470
13 - 1st Grade	UV-13	840	Classroom	25	21	10	0.12	310.8	470
14 - 1st Grade	UV-14	840	Classroom	25	21	10	0.12	310.8	470
15 - 1st Grade	UV-15	830	Classroom	25	21	10	0.12	309.6	420
17 - Teacher's Dining	UV-17	621	Conference Room	50	32	5	0.06	197.26	470
26 - Music/Vocal	UV-109	986	Classroom	25	25	10	0.12	368.32	420
30 - Music Room 2	UV-110	1170	Classroom	25	30	10	0.12	440.4	500
42 - Classroom	UV-42	670	Classroom	25	17	10	0.12	250.4	470
51 - Cafetorium	RTU-H-2 & RTU-H-3 & RTU-H-4	4910	Café	70	300	7.5	0.18	3133.8	6500
51-Stage	RTU-H-1	1100	Stage	70	50	10	0.06	566	1500
52 - Gym	T-5 & T-6	6625	Multi-Use Assembly	100	600	7.5	0.06	4897.5	10260
120 - Art Room 1	UV-120	1090	Art Room	20	22	10	0.18	416.2	420
121 - 2nd Grade	UV-121	780	Classroom	25	20	10	0.12	293.6	420
122 - Art Room 2	UV-122	1010	Art Room	20	21	10	0.18	391.8	420
123 - 2nd Grade	UV-123	780	Classroom	25	20	10	0.12	293.6	470
124 - 3rd Grade	UV-124	775	Classroom	25	20	10	0.12	293	470
125A - 4th/3rd Grade	UV-125A	780	Classroom	25	20	10	0.12	293.6	470
125B - 4th/3rd Grade	UV-125B	780	Classroom	25	20	10	0.12	293.6	470
126A - 4th Grade	UV-126A	780	Classroom	25	20	10	0.12	293.6	470
126B - 4th Grade	UV-126B	780	Classroom	25	20	10	0.12	293.6	470
127 - 2nd Grade	UV-127	780	Classroom	25	20	10	0.12	293.6	470
128 - Primary Play Room	T-1 & T-2	5015	Multi-Use Assembly	100	315	7.5	0.06	2663.4	3066
129 - 2nd Grade	UV-129	780	Classroom	25	20	10	0.12	293.6	470
131A - 2nd Grade	UV-131A	780	Classroom	25	20	10	0.12	293.6	470
131B - 2nd Grade	UV-131B	780	Classroom	25	20	10	0.12	293.6	470
133 - 2nd Grade	UV-133	785	Classroom	25	20	10	0.12	294.2	470
135A - 4th Grade	UV-135A	420	Classroom	25	11	10	0.12	160.4	210
135B - 4th Grade	UV-135B	420	Classroom	25	11	10	0.12	160.4	210
137 - 4th Grade	UV-137	775	Classroom	25	20	10	0.12	293	470
139 - 3rd Grade	UV-139	775	Classroom	25	20	10	0.12	293	470
141 - 3rd Grade	UV-141	775	Classroom	25	20	10	0.12	293	470
220 - 5th Grade	UV-220	900	Classroom	25	23	10	0.12	338	420
221 - 5th Grade	UV-221	785	Classroom	25	20	10	0.12	294.2	470
222 - 4th Grade	UV-222	800	Classroom	25	20	10	0.12	296	500
223 - 5th Grade	UV-223	785	Classroom	25	20	10	0.12	294.2	470
224 - Music Room	UV-227	760	Classroom	25	19	10	0.12	281.2	420
225 - 5th Grade	UV-225	780	Classroom	25	20	10	0.12	293.6	470
226 -3rd Grade	UV-226	780	Classroom	25	20	10	0.12	293.6	470
227 - 5th Grade	UV-227A	1020	Classroom	25	26	10	0.12	382.4	500
228 - 3rd Grade	UV-228	790	Classroom	25	20	10	0.12	294.8	470
229 - 4th Grade	UV-229	790	Classroom	25	20	10	0.12	294.8	470
229A - 7th Grade	UV-229A	1000	Classroom	25	25	10	0.12	370	500
231 - 5th Grade	UV-231	1000	Classroom	25	25	10	0.12	370	500
233 - 3rd Grade	UV-233	1030	Classroom	25	26	10	0.12	383.6	500
235A - Special Education	UV-235A	580	Classroom	25	15	10	0.12	219.6	210
235B - Special Education	UV-235B	580	Classroom	25	15	10	0.12	219.6	210
237 - Classroom	UV-237	1250	Home-Ec	20	25	7.5	0.12	337.5	500
239 - 6th Grade	UV-239	800	Classroom	25	20	10	0.12	296	500
Resource	UV-224	375	Classroom	25	10	10	0.12	145	210
Classroom	UV-20	411	Classroom	25	11	10	0.12	159.32	470
Classroom	UV-21	416	Classroom	25	11	10	0.12	159.92	470

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO.	DATE:	DESCRIPTION:
2	09-03-2024	ADDENDUM #2
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

VENTILATION TABLE

DRAWING NUMBER:

M002

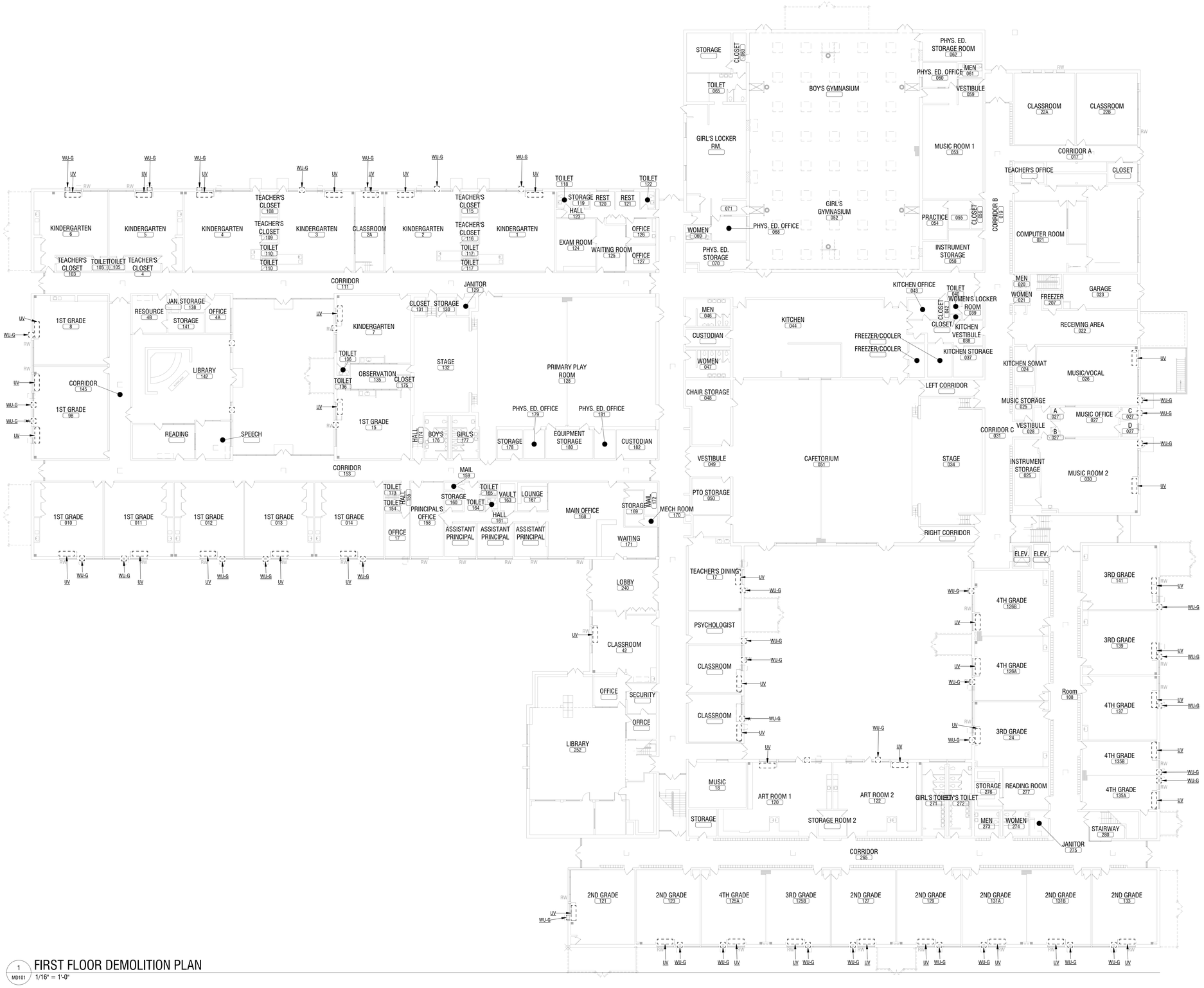
11/11/2024 4:01:03 PM

MECHANICAL NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING OUTSIDE AIR LOUVER TO REMAIN FOR RECONNECTION.
2. REMOVE EXISTING WINDOW AIR CONDITIONING UNIT IN ITS ENTIRETY.

KEY NOTES:

1. REMOVE EXISTING AIR HANDLING UNIT. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING OUTSIDE AIR DUCTWORK TO REMAIN FOR RECONNECTION.
2. REMOVE EXISTING AIR HANDLING UNIT IN ITS ENTIRETY. REMOVE EXISTING HWS/HWR PIPING AND ASSOCIATED VALVES BACK TO PIPING MAINS AND CAP. REMOVE EXISTING OUTSIDE AIR DUCTWORK UP TO LOUVER/ROOF PENTHOUSE AND CAP.
3. REMOVE EXISTING AIR HANDLING UNIT. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK TO REMAIN FOR RECONNECTION.



1 MD101 FIRST FLOOR DEMOLITION PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 4:01:06 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

FIRST FLOOR DEMOLITION PLAN

DRAWING NUMBER:

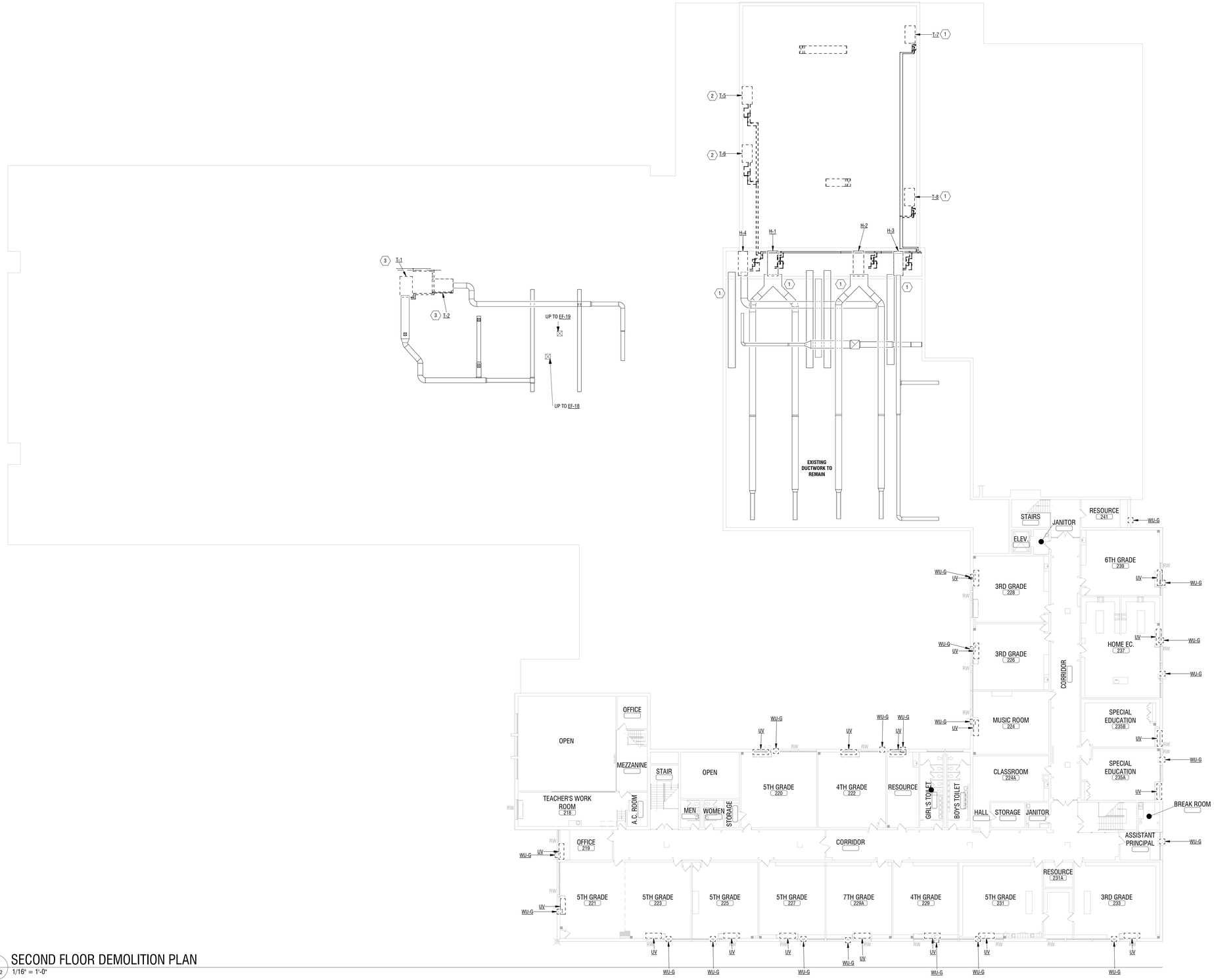
MD101

MECHANICAL NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING OUTSIDE AIR LOUVER TO REMAIN FOR RECONNECTION.
2. REMOVE EXISTING WINDOW AIR CONDITIONING UNIT IN ITS ENTIRETY.

KEY NOTES:

(1) REMOVE EXISTING AIR HANDLING UNIT. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING OUTSIDE AIR DUCTWORK TO REMAIN FOR RECONNECTION.



1 MD102 SECOND FLOOR DEMOLITION PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR DEMOLITION PLAN

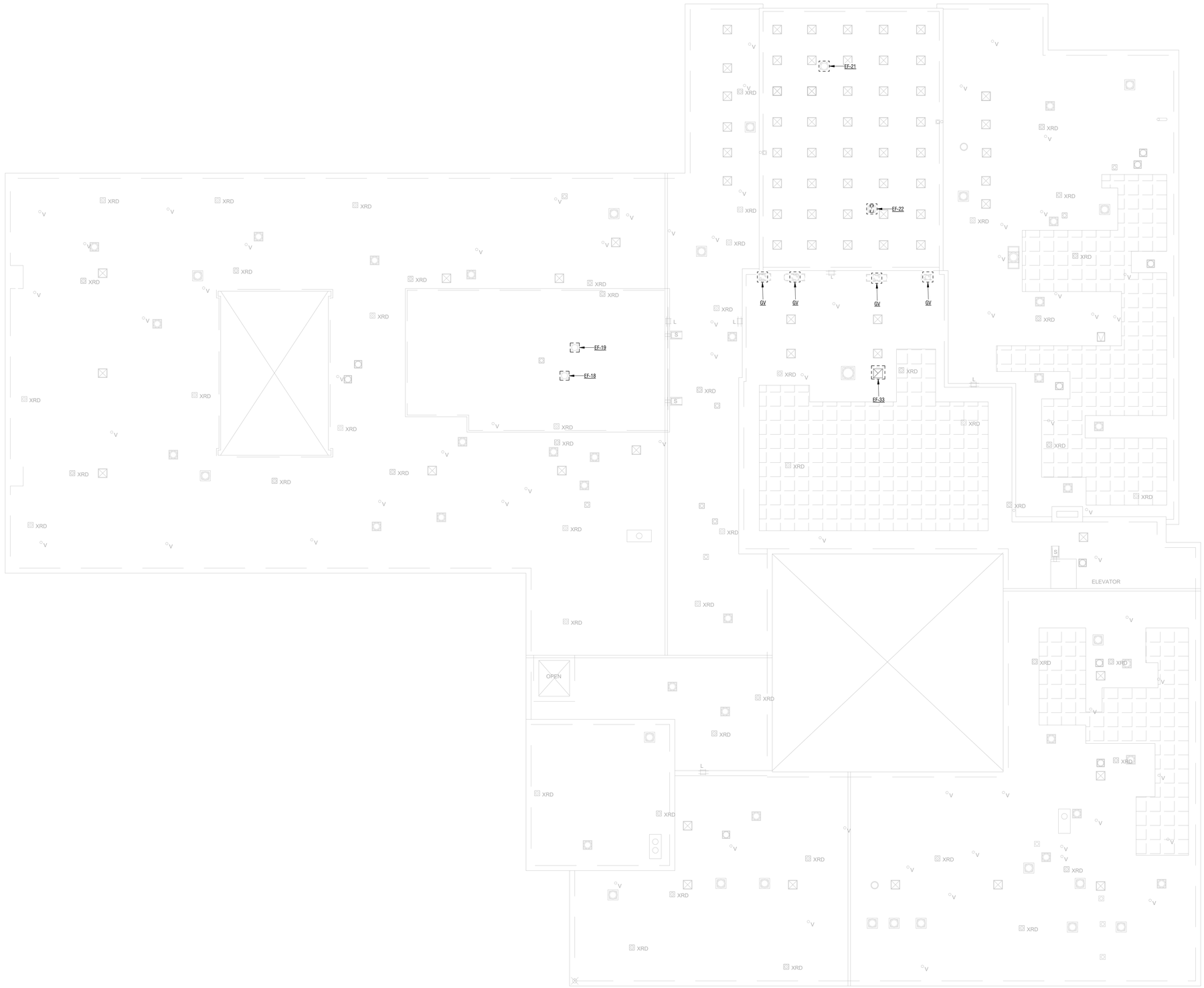
DRAWING NUMBER:

MD102

11/11/2024 4:01:08 PM

MECHANICAL NOTES:

1. REMOVE EXHAUST. MAINTAIN EXISTING ROOFCURB AND DUCTWORK FOR RECONNECTION.



1 MD103 ROOF MECHANICAL DEMOLITION PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 4:01:08 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: ROOF DEMOLITION PLAN

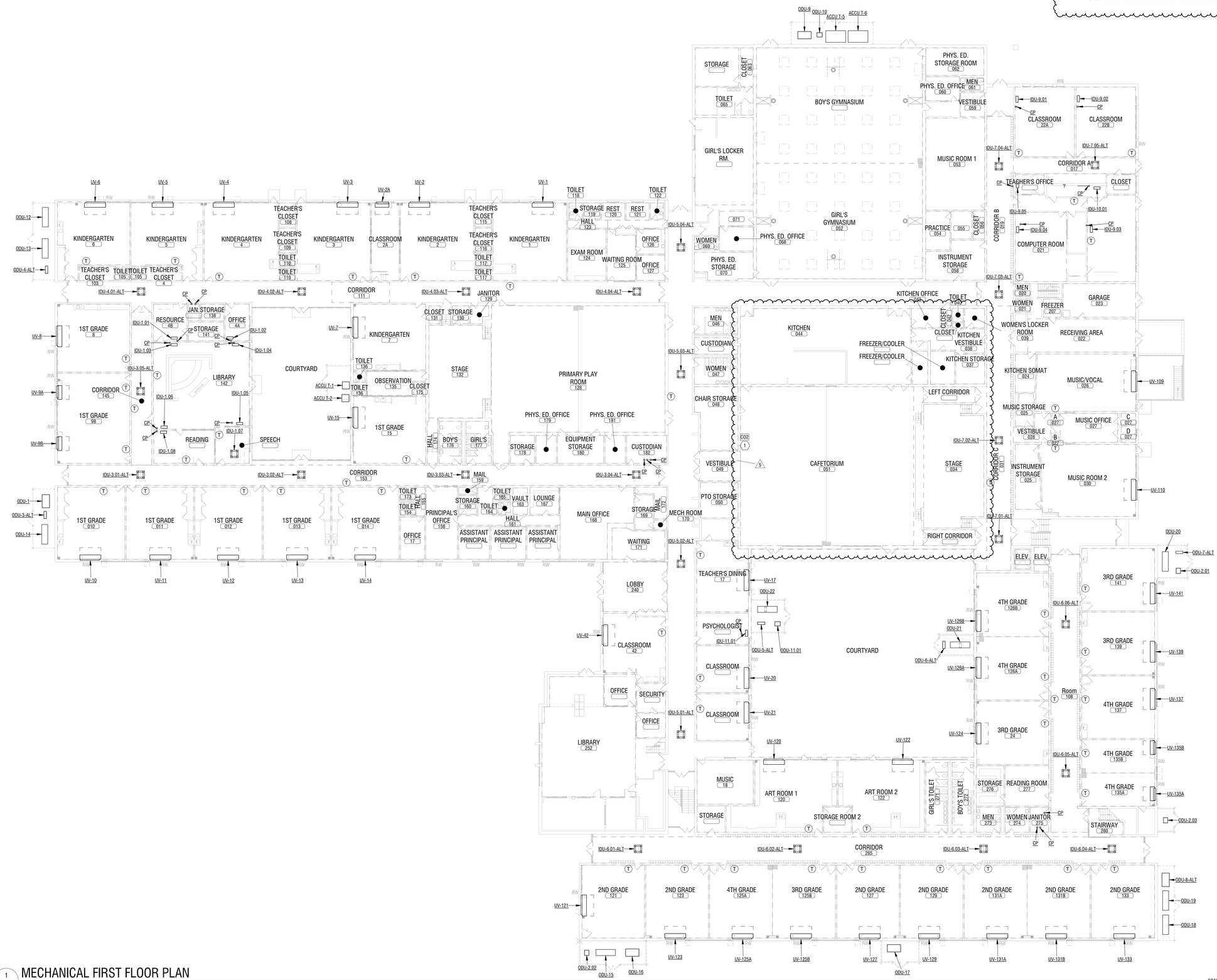
DRAWING NUMBER: MD103

MECHANICAL NOTES:

1. PROVIDE TEMPERATURE SENSOR AND TIE BACK TO BMS SYSTEM (TYP.)
2. RECONNECT AHUs TO EXISTING HWS/HWR PIPING ROUGH-INS. PROVIDE VALVES AND ACCESSORIES AS DETAILED. RECONNECT TO EXISTING DUCTWORK. PROVIDE REFRIGERANT PIPING PER MANUFACTURERS

KEY NOTES:

5 — 1 CO2 SENSOR TO BE LOCATED 54" A.F.F. IN BREATHING ZONE FOR DCV; REDUNDANT CO2 SENSOR TO BE INSTALLED AT EACH LOCATION (TYP). PROVIDE PROTECTIVE COVER FOR EACH SENSOR INSTALLED.



1 M101 MECHANICAL FIRST FLOOR PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 4:01:14 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
5	10-04-2024	ADDENDUM #5

Revisions

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

FIRST FLOOR DUCTWORK PLAN

DRAWING NUMBER:

M101

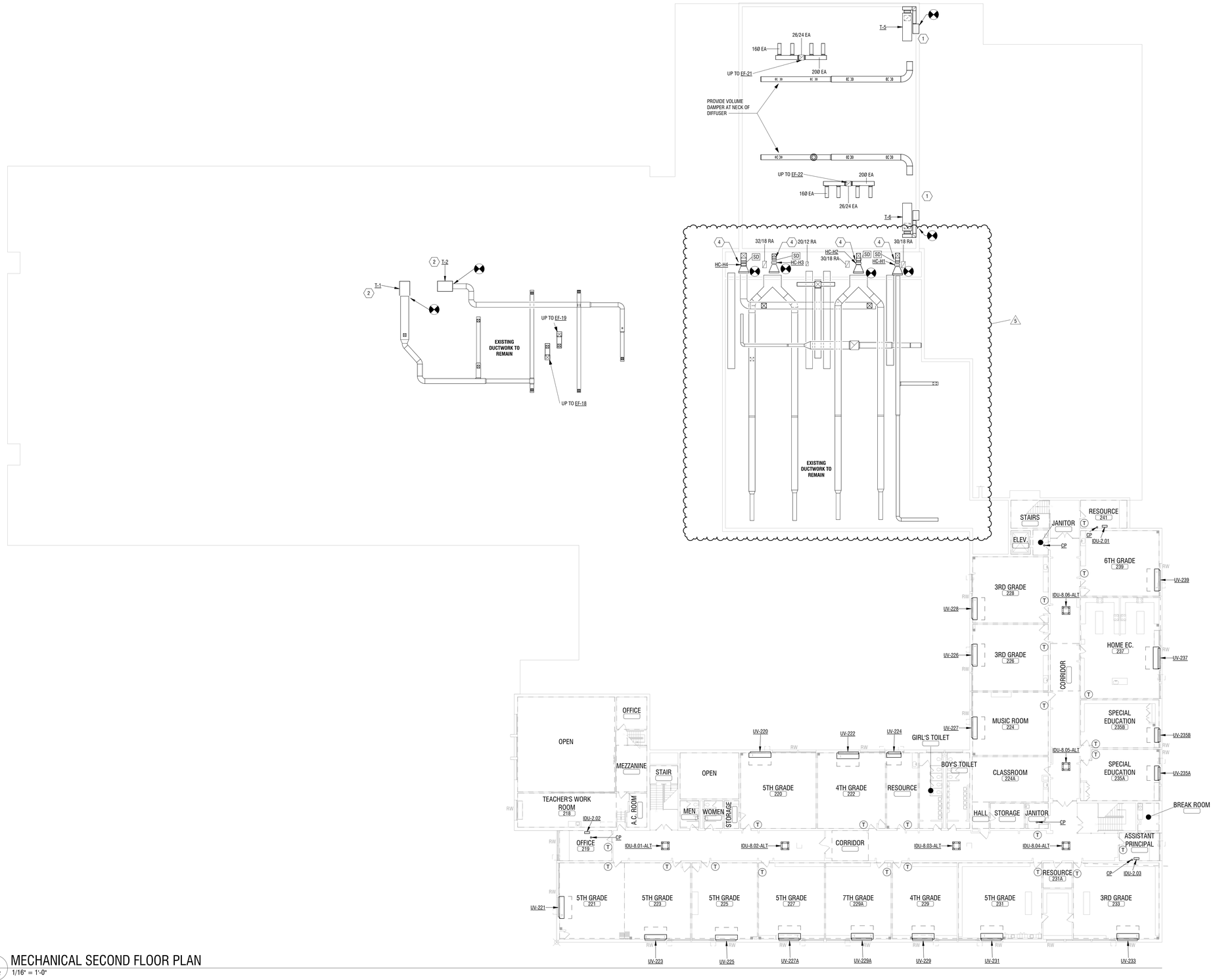
MECHANICAL NOTES:

1. PROVIDE TEMPERATURE SENSOR AND TIE BACK TO BMS SYSTEM (TYP.)
2. PROVIDE AHU AS SCHEDULED. RECONNECT TO EXISTING HWS/HWR PIPING ROUGH-INS. PROVIDE VALVES AND ACCESSORIES AS DETAILED. RECONNECT TO EXISTING DUCTWORK. PROVIDE REFRIGERANT PIPING PER MANUFACTURERS

KEY NOTES:

5

1. PROVIDE ANGLE BRACKETS AND PLATFORM MOUNTING SYSTEM TO HANG AHU FROM EXISTING WALL STRUCTURE
2. PROVIDE UNISTRUT MOUNTING SYSTEM TO HANG AHU FROM CEILING
3. DISCONNECT AND RECONNECT HOT WATER PIPING. RE-USE EXISTING CONTROL VALVE.
4. PROVIDE DUCT MOUNTED SMOKE DETECTOR RATED FOR VELOCITY OF CORRESPONDING SUPPLY DUCT (TYP).



1 / M102 MECHANICAL SECOND FLOOR PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 4:01:18 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
5	10-04-2024	ADDENDUM #5
4	09-20-2024	ADDENDUM #4
3	09-13-2024	ADDENDUM #3
2	09-03-2024	ADDENDUM #2

Revisions

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR DUCTWORK PLAN

DRAWING NUMBER:

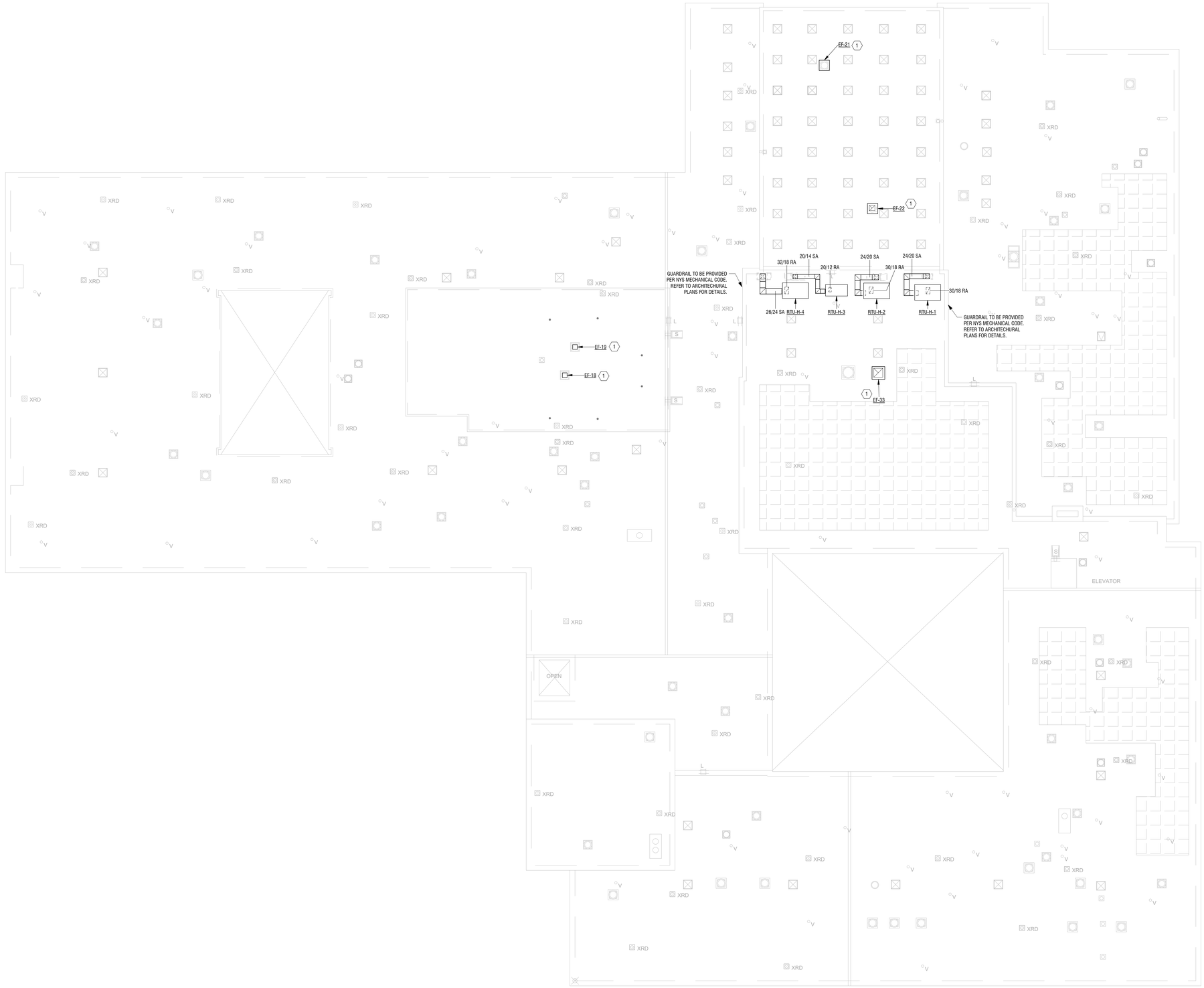
M102

MECHANICAL NOTES:

1. PROVIDE TEMPERATURE SENSOR AND TIE BACK TO BMS SYSTEM (TYP.)
2. PROVIDE AHU AS SCHEDULED. RECONNECT TO EXISTING HWS/HWR PIPING ROUGH-INS. PROVIDE VALVES AND ACCESSORIES AS DETAILED. RECONNECT TO EXISTING DUCTWORK. PROVIDE REFRIGERANT PIPING PER MANUFACTURERS

KEY NOTES:

1 RECONNECT TO EXISTING DUCTWORK BELOW ROOF, REUSE EXISTING ROOF CURB. PROVIDE ROOF CURB ADAPTOR AS REQUIRED.



1 M103 ROOF MECHANICAL PLAN
1/16" = 1'-0"

GRAPHIC SCALE
SCALE: 1/16" = 1'-0"
0 16' 32' 48' 64'

11/11/2024 4:01:19 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
2	09-03-2024	ADDENDUM #2
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: ROOF EQUIPMENT PLAN
DRAWING NUMBER: M103

MECHANICAL NOTES:

1. CONTRACTOR TO PROVIDE PIPE EXPANSION AS REQUIRED.

KEY NOTES:

1. RECONNECT EXISTING 1" HWS/HWR PIPING TO HOT WATER COIL WITHIN UV. PROVIDE A SHUT OFF VALVE ON THE HWS PIPE CONNECTION. PROVIDE A SHUT OFF VALVE AND BALANCING VALVE ON THE HWR PIPE CONNECTION. PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO REFRIGERANT COIL WITHIN UV AS SIZED AND DIRECTED BY MANUFACTURER. PROVIDE 1" CONDENSATE PIPE DISCHARGE TO THE EXTERIOR WALL, DRAINED BY GRAVITY.
2. PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO REFRIGERANT COIL WITHIN UV AS SIZED AND DIRECTED BY MANUFACTURER. PROVIDE 1" CONDENSATE PIPING TO THE CLOSEST EXTERIOR WALL, DRAINED BY GRAVITY.
3. PROVIDE DRAIN PAN AND LEAK DETECTION SYSTEM UNDER EACH CONDENSATE LINE CONNECTION AT INDOOR UNIT. PROVIDE 1" CONDENSATE LINE AS SHOWN.
4. PROVIDE LITTLE GIANT #VCMA CONDENSATE PUMP WITH DRAIN PAIN AND LEAK DETECTION SYSTEM.
5. PROVIDE DRAIN PAN AND LEAK DETECTION SYSTEM UNDER EACH DUCTED DX COIL. PROVIDE 1" CONDENSATE PIPING AS SHOWN.
6. DISCHARGE CONDENSATE INDIRECTLY TO MOP SINK.

1 M201 MECHANICAL FIRST FLOOR PIPING PLAN
1/16" = 1'-0"

11/1/2024 4:01:28 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

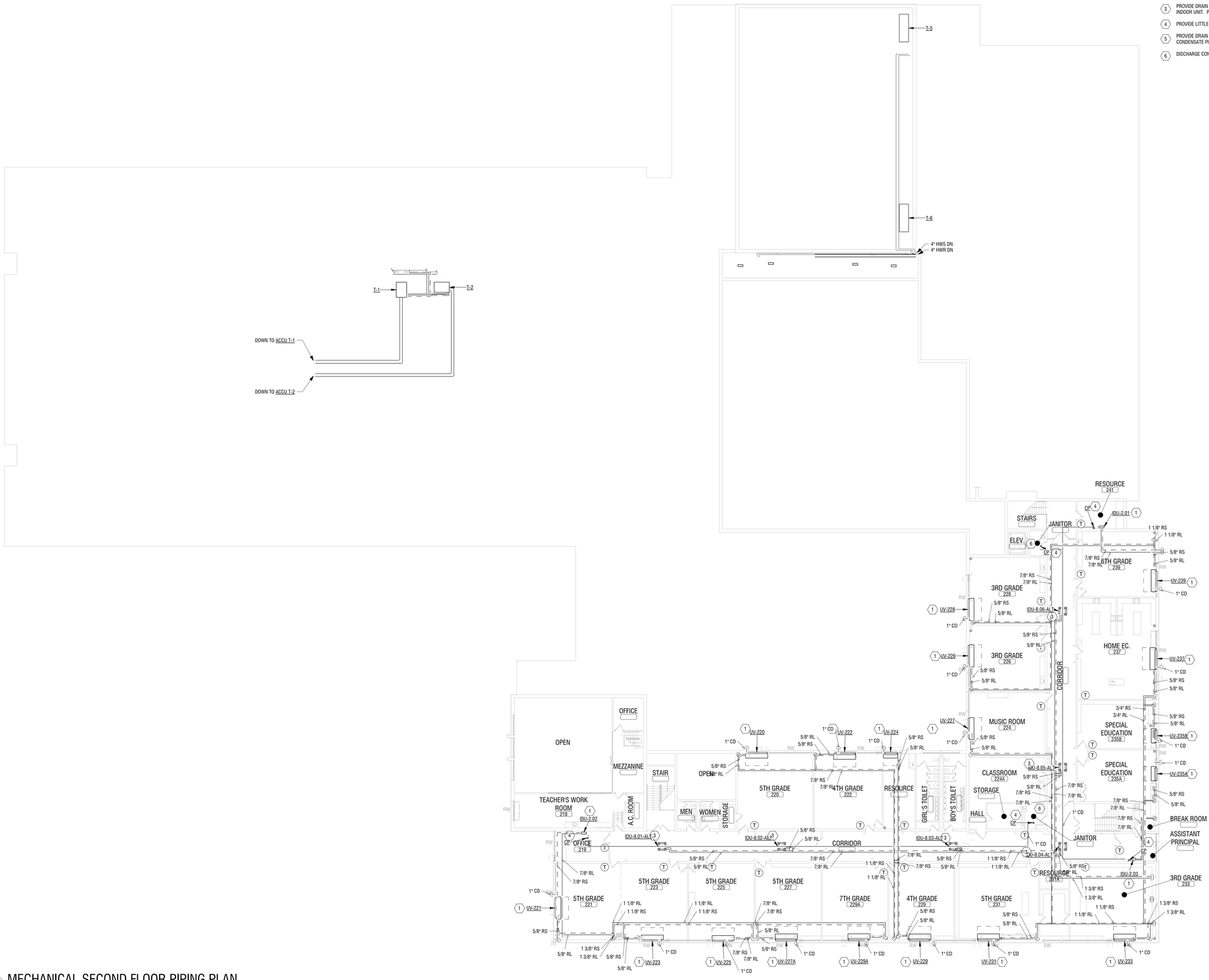
S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

FIRST FLOOR PIPING

DRAWING NUMBER:

M201

GRAPHIC SCALE
SCALE: 1/4" = 1'-0"
0 4' 8' 12' 16'



1 M202 MECHANICAL SECOND FLOOR PIPING PLAN

1/16" = 1'-0"

MECHANICAL NOTES:

1. CONTRACTOR TO PROVIDE PIPE EXPANSION AS REQUIRED.

KEY NOTES:

1. RECONNECT EXISTING 1" HWS/HWR PIPING TO HOT WATER COIL WITHIN UV. PROVIDE A SHUT OFF VALVE ON THE HWS PIPE CONNECTION. PROVIDE A SHUT OFF VALVE AND BALANCING VALVE ON THE HWR PIPE CONNECTION. PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO REFRIGERANT COIL WITHIN UV AS SIZED AND DIRECTED BY MANUFACTURER. PROVIDE 1" CONDENSATE PIPE DISCHARGE TO THE EXTERIOR WALL, DRAINED BY GRAVITY.
2. PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO REFRIGERANT COIL WITHIN UV AS SIZED AND DIRECTED BY MANUFACTURER. PROVIDE 1" CONDENSATE PIPING TO THE CLOSEST EXTERIOR WALL, DRAINED BY GRAVITY.
3. PROVIDE DRAIN PAN AND LEAK DETECTION SYSTEM UNDER EACH CONDENSATE LINE CONNECTION AT INDOOR UNIT. PROVIDE 1" CONDENSATE LINE AS SHOWN.
4. PROVIDE LITTLE GIANT #VCMA CONDENSATE PUMP WITH DRAIN PAIN AND LEAK DETECTION SYSTEM.
5. PROVIDE DRAIN PAN AND LEAK DETECTION SYSTEM UNDER EACH DUCTED DX COIL. PROVIDE 1" CONDENSATE PIPING AS SHOWN.
6. DISCHARGE CONDENSATE INDIRECTLY TO MOP SINK.

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY

525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

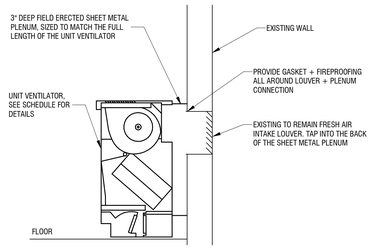
ISSUED FOR: BID

DATE: 11/12/2024

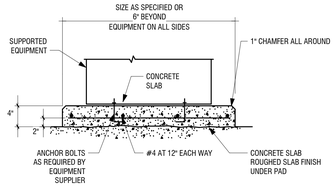
DRAWING NAME: SECOND FLOOR PIPING

DRAWING NUMBER: M202

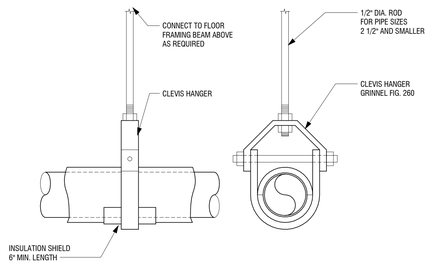
11/11/2024 4:01:32 PM



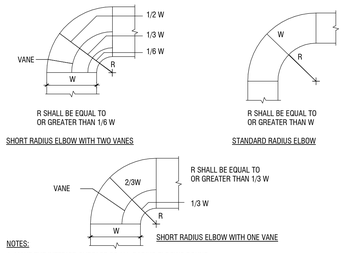
1 M501 **UNIT VENTILATOR PLENUM DETAIL**
NOT TO SCALE



2 M501 **S - HOUSEKEEPING PAD DETAIL**
NOT TO SCALE



3 M501 **PIPE - PIPE SUPPORT DETAIL**
NOT TO SCALE

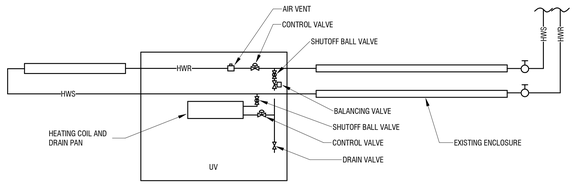


NOTES:

1. MAKE THE INTERIOR SURFACE OF ALL RADIUS ELBOWS ROUND.

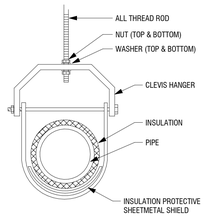
2. MAKE ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS HAVE VANES, AND VANES ARE CONSTRUCTED, SUPPORTED AND FASTENED IN ACCORDANCE WITH SMACNA.

4 M501 **DUCT - TYPICAL RADIUS ELBOWS**
NOT TO SCALE

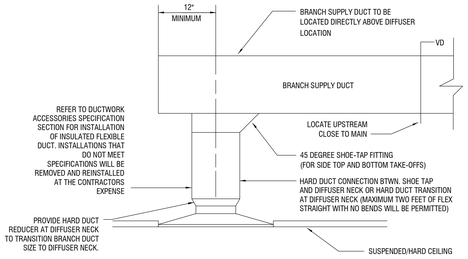


NOTES:
SEPERATE CONTROL FOR UV AND FTR. CONFIGURATIONS MAY VARY. PROVIDE ALLOWANCE OF INSTALLATION OF 10 FEET OF ADDITIONAL 1" COPPER PIPING PER CLASSROOM TO ALLOW FOR OTHER CONFIGURATIONS. CONTRACTOR TO PROVIDE SHOP DRAWING FOR EACH CLASSROOM CONFIGURATION TYPE.

5 M501 **VRV UNIT VENTILATOR PIPING DETAIL**
3/16" = 1'-0"



6 M501 **PIPE - PIPE CLEVIS HANGER DETAIL**
NOT TO SCALE



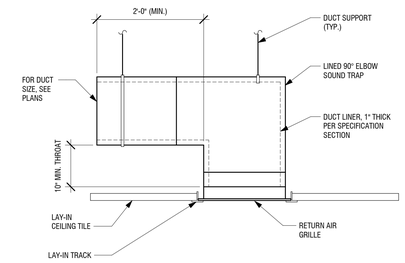
NOTES:

1). ALL DUCTWORK AND DIFFUSER CONNECTIONS SHALL MEET SMACNA STANDARDS.

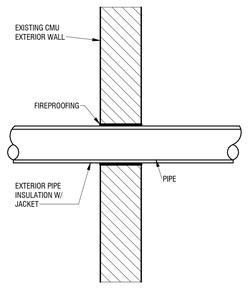
2). EXCESSIVE USE OF FLEX DUCTWORK AND OFFSETS IN EXCESS OF 45 DEGREES WILL BE REJECTED AT TIME OF PROJECT INSPECTION AND RE-INSTALLED AT THE CONTRACTORS EXPENSE.

3). COORDINATE DIFFUSER AND BRANCH DUCTWORK LOCATIONS WITH REFLECTED CEILING PLAN TO MAINTAIN ACCURACY.

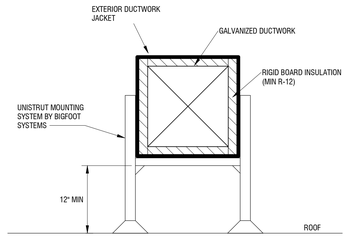
7 M501 **DUCT - AT - DIFFUSER DETAIL**
NOT TO SCALE



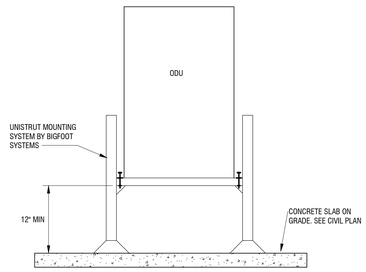
8 M501 **DUCT - AT - RETURN GRILLE W/ SOUND/LIGHT TRAP**
NOT TO SCALE



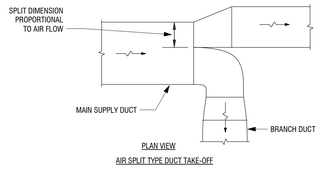
13 M501 **PIPE THROUGH EXTERIOR WALL DETAIL**
N.T.S.

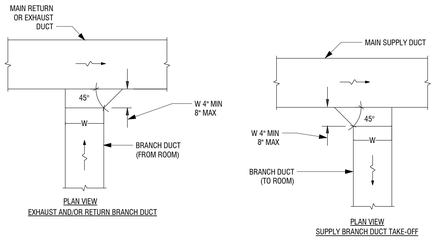


9 M501 **EXTERIOR DUCTWORK DETAIL**
N.T.S.

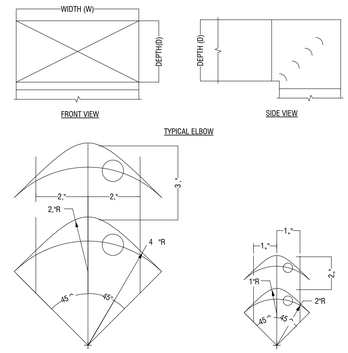


12 M501 **OUTDOOR UNIT MOUNTING DETAIL**
N.T.S.





10 M501 **DUCT - TYPICAL DUCTWORK DETAILS**
NOT TO SCALE



NOTES:

1. ALL SQUARE OR RECTANGULAR ELBOWS SHALL HAVE ONE OF THE TWO TYPES OF TURNING VANES SHOWN ABOVE. SINGLE VANE ELBOWS SHALL NOT BE PERMITTED.

2. CONSTRUCT, SUPPORT, AND FASTEN ALL VANES AS RECOMMENDED BY SMACNA.

3. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR EXHAUST OR RETURN DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE PERMITS RADIUS INSTALLATION.

4. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR SUPPLY DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE PERMITS RADIUS INSTALLATION AND/OR THERE IS NO OUTLET OR TAKE-OFF WITHIN 5D ON THE DOWNSTREAM SIDE OF THE ELBOW.

11 M501 **DUCT - SQUARE OR RECTANGULAR ELBOWS**
NOT TO SCALE

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

MECHANICAL DETAILS

DRAWING NUMBER:

M501

11/11/2024 4:01:33 PM

UNIT VENTILATOR

		SUPPLY FAN		COOLING							HEATING							ELECTRICAL			UNIT SIZE				BASIS OF DESIGN		
TAG	SERVED BY	AIRFLOW (CFM)	OA (CFM)	TOT. CAP. (BTU/H)	SENS. CAP. (BTU/H)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	REFRIGERANT TYPE	TOT. CAP (BTU/H)	EAT DB (°F)	LAT DB (°F)	COIL ROWS	FLOW (GPM)	EWT (°F)	LWT (°F)	VOLT/HZ/PHASE	MCA (A)	MOCP (A)	L	W	H	WEIGHT (LB)	MANUFACTURER	MODEL	NOTES
UV-1	ODU-12	1500	500	50656	34148	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-2	ODU-12	1500	500	50656	34148	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-2A	ODU-12	750	210	25635	15482	80.0 °F	67.0 °F	60.9 °F	55.9 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-3	ODU-12	1500	500	50656	34148	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-4	ODU-12	1500	500	50656	34148	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-5	ODU-13	1500	500	50656	34148	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-6	ODU-13	1500	500	50656	34148	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-7	ODU-14	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-8	ODU-13	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-9A	ODU-13	750	210	25635	15482	80.0 °F	67.0 °F	60.9 °F	55.9 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-9B	ODU-13	750	210	25635	15482	80.0 °F	67.0 °F	60.9 °F	55.9 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-10	ODU-13	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-11	ODU-14	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-12	ODU-14	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-13	ODU-14	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-14	ODU-14	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-15	ODU-14	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-17	ODU-22	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-20	ODU-22	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-21	ODU-22	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-42	ODU-22	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-109	ODU-20	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-110	ODU-20	1500	500	50656	34148	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	98	22	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-120	ODU-22	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-121	ODU-15	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-122	ODU-15	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-123	ODU-15	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-124	ODU-21	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-125A	ODU-15	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-125B	ODU-15	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-126A	ODU-21	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-126B	ODU-21	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-127	ODU-15	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-129	ODU-18	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-131A	ODU-18	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-131B	ODU-18	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-133	ODU-18	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-135A	ODU-18	750	210	25635	15482	80.0 °F	67.0 °F	60.9 °F	55.9 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-135B	ODU-18	750	210	25635	15482	80.0 °F	67.0 °F	60.9 °F	55.9 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-137	ODU-21	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-139	ODU-21	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-141	ODU-20	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-220	ODU-17	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-221	ODU-16	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-222	ODU-17	1500	500	51223	47563	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	110	28	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-223	ODU-16	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-224	ODU-17	750	210	25635	15482	80.0 °F	67.0 °F	60.9 °F	55.9 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-225	ODU-17	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-226	ODU-20	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-227	ODU-19	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-227A	ODU-16	1500	500	51223	47563	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	110	28	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-228	ODU-20	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL
UV-229	ODU-17	1500	500	51223	47563	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	110	28	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-229A	ODU-16	1500	500	51223	47563	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	110	28	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-231	ODU-19	1500	500	51223	47563	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	110	28	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-233	ODU-19	1500	500	51223	47563	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	110	28	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-235A	ODU-19	750	210	25635	15482	80.0 °F	67.0 °F	60.9 °F	55.9 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-235B	ODU-19	750	210	25635	15482	80.0 °F	67.0 °F	60.9 °F	55.9 °F	R-410A	46057	51 °F	108 °F	2	2.0	180 °F	134 °F	208 V/60 Hz/1	4	15	62	22	30	370	DAIKIN APPLIED	UAVS9V07	ALL
UV-237	ODU-19	1500	500	51223	47563	80.0 °F	67.0 °F	58.2 °F	55.6 °F	R-410A	76026	47 °F	96 °F	2	2.0	180 °F	104 °F	208 V/60 Hz/1	4	15	110	28	30	600	DAIKIN APPLIED	UAVS9V15	ALL
UV-239	ODU-20	1250	420	40407	28022	80.0 °F	67.0 °F	58.7 °F	56.2 °F	R-410A	76598	41 °F	99 °F	2	2.0	180 °F	129 °F	208 V/60 Hz/1	4	15	86	22	30	975	DAIKIN APPLIED	UAVS9V13	ALL

NOTES:

1. PROVIDE PLENUM BACK
2. CUSTOM LOUVERS PROVIDED BY CONTRACTOR
3. CONTRACTOR TO PROVIDE 1/8" MINIMUM SPLITTER TO SEPERATE OA AND CONDENSOR AIR
4. ALL HYRDONIC CONNECTION ARE ON THE LEFT OF THE UNIT, CONTRACTOR TO ROUTE PIPING AS REQUIRED
5. PROVIDE MERV-13 FILTER AND A BACKUP MERV 13 FILTER

INDOOR AIR HANDLING UNITS

				FAN			FAN	HW HEATING							DX COOLING				ELECTRICAL						BASIS OF DESIGN		
TAG	LOCATION	SERVES	AREA	TOTAL CFM	OA CFM	MIN OA	ESP (IN WG)	GPM	EAT	LAT	EWT	LWT	PD (FT)	MBH	EA (DB/WB)	LA (DB/WB)	SENSIBLE COOLING (MBH)	TOTAL COOLING (MBH)	V/PH	MOTOR HP	FLA	BHP	MCA	MOP	MANUFACTURER	MODEL NUMBER	NOTES
T-1	STAGE	PLAYROOM WEST AND STAGE	3130	3600	1746	349	0.8	13.7	36.6	87.3	180	150	15.64	200	84.8 / 71.9	60.9 / 59.8	93.9	150.3	208V/3PH	2 @ 4.42		1.27	26	35	DAIKIN	BCHE0401	1,2,3,4
T-2	STAGE	PLAYROOM EAST	1885	2600	1320	264	0.8	10.1	34.9	87.0	180	150	10.33	148.1	85.8 / 72.0	60.8 / 59.6	71.1	111	208V/3PH	4.42		0.96	14.4	25	DAIKIN	BCHE0301	1,2,3,4
T-5	GYM	GYM	3312.5	5130	2480	496	0.8	16.8	37.2	83.2	180	150	4	257.9	84.9 / 70.3	57.0 / 55.5	156.5	245	208V/3PH	2 @ 2.1	11.4	2.8	12.8	15	DAIKIN	CAH015GDCM	1,3,4
T-6	GYM	GYM	3312.5	5130	2480	496	0.8	16.8	37.2	83.2	180	150	4	257.9	84.9 / 70.3	57.0 / 55.5	156.5	245	208V/3PH	2 @ 2.1	11.4	2.8	12.8	15	DAIKIN	CAH015GDCM	1,3,4

NOTES:

1. CONTROLS BY PROJECT CONTROLS CONTRACTOR
2. UNITS HAVE LENGTH LIMITATIONS, TBD
3. HORIZONTAL UNITS WITH END SUPPLY, END OA, AND BOTTOM RA
4. PROVIDE MXING BOX AND MERV 13 FILTERS
5. HORIZONTAL UNITS WITH END SUPPLY, TOP OA, AND BOTTOM RA

AIR COOLED CONDENSING UNITS (ACCU)

						COOLING				ELECTRICAL						BASIS OF DESIGN		
TAG	SERVES	LOCATION	NOMINAL TONS	COMPRESSORS	STAGES	MBH	AMBIENT DB	EER	SOUND LEVEL (dbA)	SUPPLY VOLTAGE	MCA	MOP	WEIGHT (LBS)	REFRIGERANT TYPE	LINE SIZES (IN) SUCTION / LIQUID	MANUFACTURER	MODEL NUMBER	NOTES
ACCU T-1	PLAYROOM WEST AND STAGE	ROOF	15	2	2	143	95	14.2		208V/3PH	53	80	647	R-410A	1.625 / 0.625	DAIKIN	RCS10H150C	1,2,3,4
ACCU T-2	PLAYROOM EAST	ROOF	12	1	2	115	95	11.2	84.7	208V/3PH	47.7	80	345	R-410A	1.625 / 0.625	DAIKIN	DX14XA1203A	1,2,3,4
ACCU T-5	GYM	ROOF	20	3	4	253	95	12.3	86	208V/3PH	95.8	125	1891	R-410A	1.38 (2) / 0.62 (2)	DAIKIN	RCS020D	1,2,3,4
ACCU T-6	GYM	ROOF	20	3	4	253	95	12.3	86	208V/3PH	95.8	125	1891	R-410A	1.38 (2) / 0.62 (2)	DAIKIN	RCS020D	1,2,3,4

NOTES:

1. COMPRESSOR WARRANTY - 5 YEARS
2. PARTS WARRANTY - 1 YEAR
3. LOW AMBIENT TO 45 DEGREES
4. PROVIDE APR VALVE PER CIRCUIT

EXHAUST FAN

														BASIS OF DESIGN		
TAG	SERVES	TYPE	AIRFLOW CFM	TSP IN.WG	DRIVE	DIMENSIONS	RPM	MOTOR HP	FLA	MOP	VOLTAGE/PHASE	NOISE (SONES)	CONTROL	MANUFACTURER	MODEL NUMBER	NOTES
EF-18	PLAYROOM	ROOF DOWNBLAST	1700	0.25	DIRECT	22" x 22"		1/2	6.6	15	115V/1PH	9	0-10 vdc	GREENHECK	G-140-VG	1,2,3,5
EF-19	PLAYROOM	ROOF DOWNBLAST	1600	0.25	DIRECT	22" x 22"		1/2	6.6	15	115V/1PH	9	0-10 vdc	GREENHECK	G-140-VG	1,2,3,5
EF-21	GYM	ROOF DOWNBLAST	4455	0.25	BELT	40" x 40"		1/2	9.8	20	115V/1PH	6.4	VFD	GREENHECK	GB-300-314OXQDDRI	1,2,3,4
EF-22	GYM	ROOF DOWNBLAST	4455	0.25	BELT	40" x 40"		1/2	9.8	20	115V/1PH	6.4	VFD	GREENHECK	GB-300-314OXQDDRI	1,2,3,4
EF-33	KITCHEN	ROOF DOWNBLAST	5600	0.25	BELT	41.5" x 41.5"	460	1.0	8.8	15	208V/1PH	8.2	VFD	GREENHECK	GB-300-15140X3QD-DR1	1,2,3,4

NOTES:

1. PROVIDE 12 INCH INSULATED ROOF CURB
2. PROVIDE BACKDRAFT DAMPER
3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH
4. PROVIDE VFD TO BE MOUNTED INDOORS
5. ECM MOTOR

DUCTED HEATING COIL

									BASIS OF DESIGN		
TAG	CFM	EAT / LAT	CAPACITY	EWT/LWT	FLOWRATE	FACE AREA	FACE VELOCITY (FPM)	# ROWS	MANUFACTURER	MODEL NUMBER	NOTES
HC-H1	3250	58F / 90F	112,320 BTUH	160/140	11.2 GPM	6.5 SQFT	500	1			
HC-H2	3250	58F / 90F	112,320 BTUH	160/140	11.2 GPM	6.5 SQFT	500	1			
HC-H3	1500	58F / 90F	51,840 BTUH	160/140	5.2 GPM	3.0 SQFT	500	1			
HC-H4	4500	58F / 90F	155,520 BTUH	160/140	15.5 GPM	9.0 SQFT	500	1			

PACKAGED COOLING ROOFTOP UNIT WITH ENERGY RECOVERY WHEEL

							DX COOLING					HOT GAS REHEAT		ENERGY RECOVERY WHEEL														ELECTRICAL				BASIS OF DESIGN		
														SUMMER						WINTER														
																		EFFECTIVENESS						EFFECTIVENESS										
TAG	LOCATION	SERVICE	TOTAL CFM	OA CFM	ESP	EER/IEER	TOTAL CAPACITY	SENSIBLE CAPACITY	REFIGERANT	EAT DB/WB	LAT DB/WB	CAPACITY	LAT DB/WB	OA DB/WB EAT	RA DB/WB EAT	MIXED AIR DB/WB LAT	REMOVED CAPACITY	TOTAL	SENSIBLE	OA DB/WB EAT	RA DB/WB EAT	MIXED AIR DB/WB LAT	REMOVED CAPACITY	TOTAL	SENSIBLE	DIMENSIONS (LxHxW)	WEIGHT (LBS)	V/PH	FLA	MCA	MOP	MANUFACTURER	MODEL NUMBER	NOTES
RTU-H-1	ROOF	STAGE	3250	1535	1.0"	12.0/21.7	96,476 BTUH	81,395 BTUH	R32	76.8F/63.5F	53F/53F	60,398 BTUH	70F/59F	95F/75F	75F/62F	78.5F/63.5F	57,020 BTUH	0.78	0.8	0F/0F	75F/50F	58.8F/43.9F	108,662 BTUH	0.8	0.81	121.6 X 85.9 X 73.4	2299	208V/3PH	64.9	75.4	110	DAIKIN	DPSC07B	
RTU-H-2	ROOF	CAFETERIA	3250	1535	1.0"	12.0/21.7	96,476 BTUH	81,395 BTUH	R32	76.8F/63.5F	53F/53F	60,398 BTUH	70F/59F	95F/75F	75F/62F	78.5F/63.5F	95	0.78	0.8	0F/0F	75F/50F	58.8F/43.9F	108,662 BTUH	0.8	0.81	121.6 X 85.9 X 73.4	2299	208V/3PH	64.9	75.4	110	DAIKIN	DPSC07B	
RTU-H-3	ROOF	CAFETERIA	1500	572	0.75"	14.1/20.28	37,774 BTUH	35,059 BTUH	R32	76.8F/63.5F	54F/54F	25,734 BTUH	70F/60F	95F/75F	75F/62F	78.5F/63.5F	95	0.75	0.78	0F/0F	75F/50F	58.8F/43.9F	38,504 BTUH	0.77	0.78	103 X 69.5 X 53.3	1447	208V/3PH	30.8	35.5	50	DAIKIN	DPSC03B	
RTU-H-4	ROOF	KITCHEN	4500	2250	1.0"	12.4/21.3	124,934 BTUH	108,741 BTUH	R32	77.5F/64F	54F/54F	76,271 BTUH	70F/60F	95F/75F	75F/62F	78.5F/63.5F	95	0.73	0.74	0F/0F	75F/50F	58.8F/43.9F	144,599 BTUH	0.74	0.75	121.6 X 85.9 X 73.4	2452	208V/3PH	73.7	73.7	125	DAIKIN	DPSC10B	

AIR-COOLED VRV HEAT PUMP CONDENSING UNIT SCHEDULE

			REFRIGERANT				ELECTRICAL				BASIS OF DESIGN		
TAG	NOMINAL HEATING CAPACITY (BTU/H)	NOMINAL COOLING CAPACITY (BTU/H)	TYPE	FACTORY CHARGE (LBS)	DIMENSIONS (L X W X H)	WEIGHT (LBS)	VOLTAGE/PHASE	RLA	MCA	MOP	MANUFACTURER	MODEL NUMBER	NOTES
ODU-1	73,000	69,000	R-410A	13.0	65-2/5" X 36-11/16" X 30-3/16"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	
ODU-2.01	13,400	10,600	R-410A	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-2.02	13,400	10,600	R-410A	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-2.03	13,400	10,600	R-410A	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-3-ALT	57,000	57,500	R-410A	7.9	37" X 12-5/8" X 39"	225	208V/1PH	23.2	29.1	35	DAIKIN	RXTQ60TBVJUA	1
ODU-4-ALT	52,000	48,000	R-410A	7.5	37" X 12-5/8" X 39"	176	208V/1PH	19	29.1	35	DAIKIN	RXTQ48TBVJUA	1
ODU-5-ALT	73,000	69,000	R-410A	13.0	66-11/16" X 36-11/16" X 30-3/16"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	1
ODU-6-ALT	52,000	48,000	R-410A	7.5	37" X 12-5/8" X 39"	176	208V/1PH	19	29.1	35	DAIKIN	RXTQ48TBVJUA	1
ODU-7-ALT	57,000	57,500	R-410A	7.9	35-7/16" X 12-5/8" X 52-15/16"	225	208V/1PH	23.2	29.1	35	DAIKIN	RXTQ60TBVJUA	1
ODU-8-ALT	73,000	69,000	R-410A	13.0	66-11/16" X 36-11/16" X 30-3/16"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	1
ODU-9	108,000	96,000	R-410A	22.7	66-11/16" X 36-11/16" X 30-3/16"	525	208V/3PH	23.8	36.3	45	DAIKIN	RXYQ96AATJA	
ODU-10	N/A	13,300	R-410A	2.09	21-11/16" X 26-1/2" X 11-3/16"	60	208V/1PH	2.9	4	15	DAIKIN	RK12BXVJU	
ODU-11.01	13,400	10,600	R-410A	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-12	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
ODU-13	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
ODU-14	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
ODU-15	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
ODU-16	73,000	69,000	R-410A	13.0	66-11/16" X 36-11/16" X 30-3/16"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	
ODU-17	73,000	69,000	R-410A	13.0	48-13/16" X 30-1/8" X 30-3/16"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	
ODU-18	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
ODU-19	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
ODU-20	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
ODU-21	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
ODU-22	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	

NOTES:

1. PROVIDED AS AN ADD/ALTERNATE.

VRF HEAT PUMP INDOOR UNIT

												BASIS OF DESIGN		
TAG	SERVED BY	TYPE	AIRFLOW (H/M/L)	HEATING CAPACITY (BTU/H)	TOTAL COOLING CAPACITY (BTU/H)	SENSIBLE COOLING CAPACITY (BTU/H)	DIMENSIONS (H X W X D)	WEIGHT (LBS)	VOLTAGE/PHASE	MCA	MOP	MANUFACTURER	MODEL NUMBER	NOTES
IDU-1.01	ODU-1	WALL MOUNTED	260/160	8,700	7,500	6,000	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ07PVJU	1,2
IDU-1.02	ODU-1	WALL MOUNTED	260/160	8,700	7,500	6,000	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ07PVJU	1,2
IDU-1.03	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
IDU-1.04	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
IDU-1.05	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
IDU-1.06	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
IDU-1.07	ODU-1	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2
IDU-1.08	ODU-1	WALL MOUNTED	260/160	8,700	7,500	6,000	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ07PVJU	1,2
IDU-2.01	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	DAIKIN	FTX12NMVJU	1,2
IDU-2.02	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	DAIKIN	FTX12NMVJU	1,2
IDU-2.03	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	DAIKIN	FTX12NMVJU	1,2
IDU-3.01-ALT	ODU-3-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-3.02-ALT	ODU-3-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-3.03-ALT	ODU-3-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-3.04-ALT	ODU-3-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-3.05-ALT	ODU-3-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-4.01-ALT	ODU-4-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-4.02-ALT	ODU-4-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-4.03-ALT	ODU-4-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-4.04-ALT	ODU-4-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-5.01-ALT	ODU-5-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-5.02-ALT	ODU-5-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-5.03-ALT	ODU-5-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-5.04-ALT	ODU-5-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-6.01-ALT	ODU-6-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-6.02-ALT	ODU-6-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-6.03-ALT	ODU-6-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-6.04-ALT	ODU-6-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-6.05-ALT	ODU-6-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-6.06-ALT	ODU-6-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-7.01-ALT	ODU-7-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-7.02-ALT	ODU-7-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-7.03-ALT	ODU-7-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-7.04-ALT	ODU-7-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-7.05-ALT	ODU-7-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-8.01-ALT	ODU-8-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-8.02-ALT	ODU-8-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-8.03-ALT	ODU-8-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-8.04-ALT	ODU-8-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-8.05-ALT	ODU-8-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-8.06-ALT	ODU-8-ALT	2X2 CASETTE	353/300/247	13,990	12,000	7,700	10-1/4" X 22-5/8" X 22-5/8"	36.4	208V/1PH	0.4	15	DAIKIN	FXZQ12TAVJU	2,3
IDU-9.01	ODU-9	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
IDU-9.02	ODU-9	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
IDU-9.03	ODU-9	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
IDU-9.04	ODU-9	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
IDU-9.05	ODU-9	WALL MOUNTED	635/470	8,500	7,500	6,300	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ07PVJU	1,2
IDU-10.01	ODU-10	WALL MOUNTED	316/247/132	N/A	12,000	10,900	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FTK12B	1,2
IDU-11.01	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2

NOTES:

1. PROVIDE CONDENSATE PUMP
2. INTEGRATE INTO BACNET BMS SYSTEM
3. PROVIDED AS AN ADD/ALTERNATE

DIFFUSER

					BASIS OF DESIGN		
No.	DESCRIPTION	NECK SIZE	MOUNTING	FINISH	MANUFACTURER	MODEL	NOTES
A	SUPPLY DIFFUSER, STEEL	18" Ø	SURFACE	BY ARCH	PRICE	RID	

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
2	09-03-2024	ADDENDUM #2

Revisions

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

MECHANICAL SCHEDULES

DRAWING NUMBER:

M601

11/11/2024 4:01:42 PM

HALLWAY SPLIT SYSTEM - POINTS LIST

POINT #	POINT DESCRIPTION	READ POINTS	READ/WRITE POINTS	SOFTWARE POINTS SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		X				
2	OCCUPIED HEATING SETPOINT		X				
3	UNOCCUPIED HEATING SETPOINT		X				
4	OCCUPIED COOLING SETPOINT		X				
5	UNOCCUPIED COOLING SETPOINT		X				
6	GENERAL ALARM		X		X		
7	SPACE TEMPERATURE	X			X	X	

OFFICE SPLIT SYSTEM - POINTS LIST

POINT #	POINT DESCRIPTION	READ POINTS	READ/WRITE POINTS	SOFTWARE POINTS SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		X				
2	OCCUPIED MODE		X	X			
3	UNOCCUPIED MODE		X	X			
4	GENERAL ALARM		X		X		
5	SPACE TEMPERATURES	X			X	X	PROVIDE USER ADJUSTABLE THERMOSTATS IN EACH SPACE

NOTES:
1. CONTRACTOR TO PROGRAM DEFAULT HEATING AND COOLING SETPOINTS
2. CONTRACTOR TO PROGRAM SETPOINT ADJUSTMENT RANGE +/- 2 DEG. F
3. SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER

ACCUS - POINTS LIST

POINT #	POINT DESCRIPTION	READ POINTS	READ/WRITE POINTS	SOFTWARE POINTS SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		X				
2	COMPRESSOR STATUS	X			X		
3	MODEL SELECT (HEATING/COOLING)		X			X	
4	GENERAL ALARM				X		
5	COMPRESSOR START/STOP (2)		X			X	

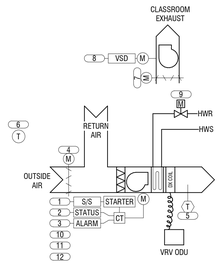
NOTES:
1. CONTRACTOR TO PROGRAM DEFAULT HEATING AND COOLING SETPOINTS
2. CONTRACTOR TO PROGRAM SETPOINT ADJUSTMENT RANGE +/- 2 DEG. F
3. SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER

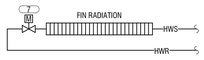
VRF UNIT VENTILATOR - POINTS LIST

ABBREVIATION KEY:
AI = ANALOG INPUT, AO = ANALOG OUTPUT, DI = DIGITAL INPUT, DO = DIGITAL OUTPUT, AV = ANALO...
DV = DIGITAL VALUE

NOTES:

POINT #	POINT DESCRIPTION	HARWARE POINTS AI	AO	DI	DO	AV	DV	SOFTWARE POINTS SCHED	ALARM	TREND	NOTES
1	FAN MOTOR START/STOP				X						
2	FAN MOTOR STATUS			X						X	
3	FAN MOTOR ALARM			X					X		
4	OA/RA DAMPER		X			X					
5	SUPPLY TEMPERATURE	X							X		
6	SPACE TEMPERATURE	X							X	X	
7	FIN TUBE CONTROL VALVE		X							X	
7	EF DAMPER				X				X		
8	FAN SPEED		X								
9	HEATING COIL CONTROL VALVE		X							X	
10	FACE/BYPASS DAMPER		X							X	
11	MODE TO VRV SYSTEM						X			X	
12	VRV ODU TEMP. SENSOR (EACH CLASSROOM)	X							X	X	





NOTE: FIN RADIATION CONTROL IS NOT PRESENT IN ALL SPACES.

OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 70°F (ADJ.) HEATING SETPOINT, 74°F COOLING SETPOINT.

UNOCCUPIED MODE: (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A 60°F (ADJ.) HEATING SETPOINT, 80°F COOLING SETPOINT.

SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE SPACE TEMPERATURE HEATING SETPOINT AT THE SPACE SENSOR.

F/B DAMPER AND HEATING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE SPACE TEMPERATURE. WHENEVER THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, MODULATE THE FACE AND BYPASS DAMPER TO MAINTAIN SETPOINT. THE HOT WATER COIL VALVE SHALL BE OPEN.
HEATING SHALL BE ENABLED WHENEVER:
-OUTSIDE AIR TEMPERATURE IS LESS THAN 50°F (ADJ.) AND OAT<40F - COIL 100% OPEN AND MODULATE F/B DAMPER TO MAINTAIN TEMPERATURE OR OAT>.40F - F/B FULL FACE AND MODULATE COIL TO MAINTAIN TEMPERATURE
-THE SPACE TEMPERATURE IS BELOW HEATING SETPOINT.

ECONOMIZER MODE WHEN OUTSIDE AIR IS ABOVE 60°F (ADJ.):

WHENEVER THE F/B DAMPER IS IN FULL BYPASS POSITION AND THE SPACE TEMPERATURE RISES ABOVE SPACE SETPOINT, THE HOT WATER COIL SHALL CLOSE. UPON FURTHER RISE IN TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL OPEN TO 100% TO ALLOW FOR ECONOMIZER COOLING.

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

OUTSIDE AIR DAMPER:
THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM OUTSIDE AIR POSITION WHENEVER:
-THE UNIT IS IN OCCUPIED MODE AND
-THE FAN IS ON.

EXISTING BUILDING CONTROLS: WHEN OA DAMPERS OPEN, EXG. RELIEF AIR DAMPERS SHALL OPEN AND RELIEF AIR EXHAUST FANS SHALL RUN.

FAN:
DURING OCCUPIED MODE THE SUPPLY FAN WILL RUN AT A CONSTANT, MANUALLY DESIGNATED SPEED (LOW/MED/HIGH).
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).
- HIGH SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS GREATER THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.
- LOW SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

FIN RADIATION HEATING VALVE (IF EXISTING IN PLACE):
WHERE EXISTING, THE FIN RADIATION SHALL:
-PROVIDE THE SECOND STAGE OF HEATING.
-PROVIDE UNOCCUPIED MODE HEATING.
-BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 60 DEG F (ADJ.)

EXISTING CLASSROOM RELIEF SYSTEM:
EXISTING RELIEF SYSTEM SHALL OPERATE DURING OCCUPIED MODES AND BE OFF DURING UNOCCUPIED MODE.

ROOF TOP UNIT CONTROLS - POINTS LIST

Point #	Point Description	HARDWARE POINTS AI	AO	DI	DO	AV	DV	SOFTWARE POINTS SCHED	ALARM	TREND	GRAPHIC	NOTES
1	OUTSIDE AIR DAMPER		X								X	
2	OUTDOOR AIR FILTER CHANGE								X		X	
3	OUTDOOR AIR FILTER DIFFERENTIAL PRESSURE			X						X	X	
4	OUTSIDE AIR TEMPERATURE	X								X	X	
5	OUTSIDE AIR HUMIDITY	X								X	X	
6	FREEZESTAT - ELECTRIC MULTIPLE CONTACT			X					X		X	
7	MIXED AIR TEMPERATURE	X								X	X	
8	SUPPLY FAN START/STOP				X							
9	SUPPLY FAN STATUS (CURRENT SENSING SWITCH)			X						X		
10	SUPPLY FAN SPEED		X							X		
11	HOT WATER VALVE		X							X		
12	RETURN AIR DAMPER		X								X	
13	EXHAUST FAN START/STOP				X					X		
14	EXHAUST FAN STATUS (CURRENT SENSING SWITCH)			X								
15	EXHAUST FAN SPEED		X									
16	EXHAUST AIR DAMPER				X						X	
17	DISCHARGE AIR TEMP	X								X	X	
18	SPACE TEMPERATURE SENSOR	X								X		
19	SPACE HUMIDITY SENSOR	X								X		
20	CO2 SENSOR	X								X		
21	CO2 SENSOR	X								X		

SETPOINTS

OCCUPIED HEATING – 70°F
OCCUPIED COOLING - 73°F

UNOCCUPIED HEATING – 63°F
UNOCCUPIED COOLING - 85°F

FREEZE PROTECTION

THE FREEZE STAT SETPOINT SHALL BE 40 DEGF. IF THE FREEZE STAT TRIPS, THE FANS SHALL STOP, THE DAMPERS SHALL MODULATE TO FULL RETURN POSITION AND THE HEATING COIL VALVE SHALL OPEN 50%. AN ALARM SHALL BE SENT.

HEATING MODE

THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN THE HEATING SETPOINT TEMPERATURE

ECONOMIZER MODE

IF THE OUTDOOR ENTHALY IS LESS THAN THE INDOOR INTHALPY AND THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT, ECONOMIZER COOLING SHALL BE ENABLED. THE MIXED AIR DAMPERS SHALL USE OUTSIDE AIR TO MAINTAIN THE COOLING SETPOINT. THE EXHAUST FAN SHALL MODULATE IN SYNC WITH THE OUTSIDE AIR DAMPER POSITION TO MAINTAIN SPACE PRESSURE BALANCE.

COOLING MODE

THE MIXED DAMPERS SHALL BE AT THE MINIMUM OCCUPIED POSITION OR THE POSITION DICTATED BY THE DCV CONTROL, WHICHEVER IS GREATER. THE ACCU SHALL START AND MODULATE TO MAINTAIN THE SPACE TEMPERATURE. THE MINIMUM SUPPLY AIR TEMPERATURE SHALL BE 50°F.

DCV CONTROL

OCCUPIED MODE

THE MIXED AIR DAMPERS SHALL MODULATE TO MAINTAIN A CO2 SETPOINT OF 800 PPM (ADJ). THE MIXED AIR DAMPERS SHALL BEGIN TO MODULATE OPEN WHEN THE INDOOR CO2 LEVEL IS 100 PPM OVER THE OUTDOOR CO2 LEVEL.

THE MINIMUM POSITION OF THE OA DAMPER SHALL BE SET BY THE AIR BALANCER TO MAINTAIN THE MINIMUM AIR FLOW SHOWN ON THE SCHEDULE.

PURGE MODE

PRE-OCCUPANCY – THERE SHALL BE A 30 MINUTE PRE-OCCUPANCY PURGE WITH THE OUTSIDE DAMPERS SET TO THE MAXIMUM AIR FLOW POSITION SHOWN ON THE SCHEDULE AS SET BY THE AIR BALANCER.

POST-OCCUPANCY FLUSH - THE POST-OCCUPANCY FLUSH SHALL OPERATE UNTIL CO2 LEVELS ARE REDUCED TO 450 PPM. DURING POST-OCCUPANCY FLUSH THE DAMPERS SHALL BE IN THE MINIMUM VENTILATION POSITION AS SHOWN ON THE AHU SCHEDULE.

SENSOR FAILURE

IF A CO2 SENSOR FAILS, THE MIXED AIR DAMPERS SHALL OPEN TO THE MAXIMUM POSITION.

COMMISSIONING AND RECORD KEEPING REQUIREMENTS

THE CO2 SENSOR CALIBRATION SHALL BE CHECKED ONE YEAR AFTER INITIAL COMMISSIONING IS COMPLETED.
CO2 CONCENTRATION READINGS SHALL BE LOGGED BY THE BMS ON A 15-MINUTE INTERVAL. RECORDS MUST BE KEPT FOR A MINIMUM OR THREE YEARS.

SAFETIES

ALARMS SHALL BE PROVIDED AS FOLLOWS:

AN ALARM SHALL BE GENERATED BY EACH OF THE ALARMS SHOWN ON THE POINTS LIST.
- IF ANY DIGITAL STATUS POINT DISAGREES WITH THE COMMAND FOR MORE THAN 5 MINUTES AN ALARM SHALL BE GENERATED
- IF ANY TEMPERATURE SETPOINT IS MORE THAN 4 DEGREES FROM THE SETPOINT FOR MORE THEN 10 MINUTES, AN ALARM SHALL BE GENERATED
- FILTER CHANGE NOTIFICATION: FILTER DIFFERENTIAL PRESSURE EXCEEDS SETPOINT (ADJ.).
- FAN SHUTDOWN UPON DUCT SMOKE DETECTOR ACTIVATION

FAN OPERATION

OCCUPIED MODE
THE SUPPLY FAN SHALL BE RUN CONTINUOUSLY UNLESS SHUTDOWN BY SAFETIES. THE SUPPLY AIR FANS SPEED SHALL BE OPTIMIZED IN THE FIELD DURING SYSTEM BALANCING TO DELIVER THE SCHEDULED SUPPLY AIRFLOW.

THE OA AND RA DAMPERS SHALL BE POSITIONED TO DELIVER THE APPROPRIATE AMOUNT OF OUTSIDE AIR AS DESCRIBED BELOW.

THE EXHAUST FAN SHALL RUN CONTINUOUSLY. THE SPEED SHALL BE MODULATED ACCORDING TO THE OUTSIDE AIR DAMPER POSITION. THE MODULATION SCHEDULE SHALL BE SET BY THE AIR BALANCER.

UNOCCUPIED MODE

GIDNEY SEQUENCE

- THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. EXISTING FINNED TUBE RADIATION SHALL MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE.

HILLS SEQUENCE-

THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. IF THE SETPONT TEMPERATURE DROPS TWO DEGREES BELOW THE UNOCCUPIED SETPOINT, THE SUPPLY FAN SHALL START AND THE HEATING COIL SHALL OPEN TO 50% POSITION UNTIL THE SPACE TEMPERATURE IS 2 DEGREES ABOVE THE SETPOINT. THE FANS SHALL STOP AND THE HEATING VALVE SHALL CLOSE.

3 M701 VRV UNIT VENTILATOR CONTROLS SCHEMATIC
1/8" = 1'-0"

2 M701 ROOF TOP UNIT CONTROLS
1/8" = 1'-0"

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
2	09-03-2024	ADDENDUM #2
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600
DRAWN BY: DRM
REVIEWED BY: MB
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: MECHANICAL CONTROLS
DRAWING NUMBER: M701

11/11/2024 4:01:48 PM

ELECTRICAL LEGEND

ELECTRICAL GENERAL NOTES

1. FOR EXACT LOCATIONS AND SURFACE FINISH CONDITIONS OF CEILINGS, WALLS, OR FLOORS, REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO HAZARDOUS MATERIALS DRAWINGS FOR LOCATIONS OF HAZARDOUS OR POSSIBLE HAZARDOUS MATERIALS BEFORE PERFORMING ANY WORK ON EXISTING STRUCTURES.
3. FOR EXACT LOCATION OF FACILITY EXPANSION JOINTS, FIRE RATED WALLS, AND SMOKE WALLS, REFER TO ARCHITECTURAL DRAWINGS.
4. FOR EXACT LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES, AND TAMPER SWITCHES REFER TO HVAC / FP DRAWINGS.
5. VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO ROUGH-IN.
6. COORDINATE LOCATIONS OF ALL RECEPTACLES AND LUMINAIRES IN MECHANICAL SPACES WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN TO AVOID CONFLICTS WITH EQUIPMENT AND DUCTWORK.
7. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS NOTED OTHERWISE, EXCEPT FOR PENDANT LIGHTING WHICH ARE TO THE BOTTOM OF THE LUMINAIRE. FOR AREAS WITH DIFFERENT FLOOR LEVELS, HEIGHT IS BASED UPON CLOSEST FLOOR OR LANDING TO DEVICE, EQUIPMENT, OR LUMINAIRE. ELEVATIONS GIVEN ON LEGEND SHEET ARE UNLESS NOTED OTHERWISE ON DRAWINGS.
8. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
9. MINIMUM BRANCH CIRCUIT WIRE SIZE SHALL BE #12 AWG **[EXCEPT LIFE SAFETY/EMERGENCY BRANCH CIRCUIT WIRING WHICH SHALL BE MINIMUM #10 AWG]**. SIZE BRANCH CIRCUIT CONDUCTORS AS PER NEC AND AS SCHEDULED ON THIS DRAWING BASED ON ACTUAL CIRCUIT DISTANCE. INCLUDE GROUND CONDUCTOR DERATINGS.
10. PULL A SEPARATE NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS REQUIRING A NEUTRAL CONNECTION. DERATE CONDUCTORS PER NEC ACCORDINGLY. MULTIWIRE BRANCH CIRCUITS ARE NOT ACCEPTABLE.
11. PROVIDE GROUNDING PER NEC & TIA 607B. PROVIDE GREEN GROUND CONDUCTOR IN ALL BRANCH AND FEEDER CIRCUITS.
12. DO NOT INSTALL ANY NEW WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS, SWITCHBOARDS, SWITCHGEAR, OR TRANSFORMERS.
13. CIRCUIT NUMBERS SHOWN FOR EQUIPMENT TO BE CONNECTED TO EXISTING PANELBOARD(S) IS SHOWN FOR DESIGN INTENT ONLY AND MAY NOT CORRESPOND TO ACTUAL CIRCUIT BREAKER MOUNTING POSITION IN THE PANEL. UPDATE THE RECORD DRAWINGS & PANELBOARD DIRECTORY WITH THE ACTUAL CIRCUIT NUMBERS USED TO CORRESPOND TO THE PANEL DIRECTORY.
14. CONFIRM ALL LABELS AND ROOM NUMBERS WITH OWNER PRIOR TO FINALIZING LABELING AND PROGRAMMING.
15. COORDINATE FINAL OUTLET LOCATION WITH ALL TRADES AND FURNITURE/MILLWORK PLACEMENT PRIOR TO ROUGH-IN. GENERAL CONTRACTOR SHALL PROVIDE ALL DRILLING AND GROMMETING IN FURNITURE/CASEWORK FOR CORD ACCESS IF REQUIRED.
16. INSTALL DATA OUTLETS 6" ADJACENT TO ASSOCIATED ELECTRICAL OUTLET.
17. SWITCHES SHOWN SIDE BY SIDE OR GANGED SHALL BE INSTALLED UNDER A COMMON COVERPLATE, UNLESS NOTED OTHERWISE.
18. PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, CEILINGS, & ROOFS AS CALLED OUT ON ARCHITECTURAL PLANS. PROVIDE ACOUSTICAL SEALANT AT PENETRATIONS THROUGH ALL NON-FIRE RATED WALLS, FLOORS, & CEILINGS.
19. PROVIDE CONDUIT EXPANSION JOINTS AT ALL EXPANSION JOINTS AS CALLED OUT ON ARCHITECTURAL PLANS.
20. SITE PLAN CONDUIT ROUTING SHOWN FOR INTENT. REFERENCE CIVIL DRAWINGS FOR UNDERGROUND COORDINATION AND DISTANCE OF RUNS. COORDINATE WITH ALL TRADES.
21. FINAL QUANTITY AND LOCATION OF WIRELESS DATA OUTLETS IDENTIFIED ON THE FLOOR PLANS SHALL BE VERIFIED WITH THE WIRELESS ACCESS POINT MANUFACTURER BASED ON THE MODEL NUMBER UTILIZED PRIOR TO INSTALLATION/ROUGH-IN.

ELECTRICAL DEMOLITION GENERAL NOTES

1. REMOVE ALL ELECTRICAL EQUIPMENT ON OR IN EXISTING WALLS, CEILINGS AND PARTITIONS WHICH ARE TO BE DEMOLISHED. WHERE EQUIPMENT IS SCHEDULED TO BE REMOVED, ABANDON CONCEALED RACEWAY AND REMOVE CONDUCTORS BACK TO SOURCE OR LAST SCHEDULED DEVICE TO REMAIN. REMOVE EXPOSED RACEWAY AND CONDUCTORS BACK TO POWER SOURCE OR LAST DEVICE SCHEDULED TO REMAIN IN ALL OTHER AREAS.
2. WHERE EXISTING WALLS ARE TO REMAIN, REMOVE ALL EXPOSED RACEWAYS, SURFACE AND RECESSED OUTLET BOXES, ETC. WHICH ARE NOT TO BE REUSED. WHERE NEW CONDUITS AND OUTLETS ARE TO BE ADDED TO EXISTING WALLS IN FINISHED ROOMS, THEY SHALL BE CONCEALED BY CUTTING AND PATCHING THE WALLS UNLESS OTHERWISE NOTED.
3. UTILIZE EXISTING OUTLET BOXES AND RACEWAY SYSTEMS WHEREVER PRACTICAL IN RENOVATION AREAS. WHERE SUCH EXISTING OUTLET BOXES ARE USED, INSTALL NEW WIRING DEVICES, COVERPLATES, AND WIRING. PROVIDE SPECIAL COVERPLATES TO SUIT FIELD CONDITIONS.
4. REARRANGE EXISTING CONDUITS AND WIRING TO ACCOMMODATE NEW CIRCUIT ARRANGEMENTS INDICATED AND TO MAINTAIN CONTINUITY OF EXISTING CIRCUITS FEEDING DEVICES THAT ARE TO REMAIN.
5. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REINSTALL EXISTING ELECTRICAL EQUIPMENT TO ACCOMMODATE THE WORK OF OR DISTURBED BY ALL TRADES.
6. STORE REMOVED ELECTRICAL EQUIPMENT SUCH AS LUMINAIRES, POWER AND COMMUNICATION DEVICES, DISTRIBUTION EQUIPMENT, CONTROLLERS, ETC. ON JOB SITE FOR REUSE UNTIL SUBSTANTIAL COMPLETION OR PROJECT CLOSEOUT. PROVIDE OWNER RIGHT OF FIRST REFUSAL OF ELECTRICAL EQUIPMENT OTHERWISE REMOVE THOSE FROM SITE AT CONTRACTORS EXPENSE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS THAT THE OWNER DOES NOT WISH TO SALVAGE.
7. EXISTING DEVICE LOCATIONS WERE IDENTIFIED AS COMPLETELY AS POSSIBLE BY A SITE SURVEY AND BY RECORD DOCUMENTS AS AVAILABLE. BE RESPONSIBLE FOR PROPER DEMOLITION AND REWORK OF DEVICES NOT SHOWN ON DRAWINGS BUT NECESSARY FOR PROJECT RENOVATIONS TO CONFORM WITH INTENT OF DOCUMENTS. VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL DEMOLITION WORK REQUIRED TO COMPLETE THE NEW CONSTRUCTION. CONTRACTOR SHALL PROVIDE IN BASE BID A NOMINAL AMOUNT OF UNKNOWN BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING BEING REMOVED OR RELOCATED FOR NEW WORK.
8. WHERE DEMOLITION OF DEVICE OR EQUIPMENT AND REMOVAL OF CONDUIT OR OTHER ACCESSORY LEAVES OPENINGS IN THE FLOORS, WALLS, OR CEILINGS, SAME SHALL BE PATCHED AND PAINTED TO MATCH EXISTING ADJACENT FINISH. ALL OPENINGS IN FLOORS SHALL BE PINNED WITH REBAR.
9. REFER TO DEMOLITION DRAWINGS & NOTES OF ALL CONTRACTS OR TRADES FOR COORDINATION.
10. IN AREAS OF DEMOLITION WHERE THE REMOVAL OF ELECTRICAL EQUIPMENT INTERFERES WITH THE NORMAL BUILDING OPERATIONS AND SYSTEMS, CONSULT WITH THE OWNER PRIOR TO PERFORMING ANY DEMOLITION.
11. WHERE UNFORESEEN CONDITIONS CONFLICT WITH CONTRACT DOCUMENTS, SUBMIT AN RFI PRIOR TO PROCEEDING WITH ANY WORK.
12. WHERE DEVICES ARE SCHEDULED FOR RELOCATION, DISCONNECT AND REMOVE EXISTING DEVICE AND REMOVE ASSOCIATED WIRING. RELOCATE DEVICE AS SHOWN, EXTEND WIRING AS REQUIRED, AND MATCH EXISTING.
13. WHERE REMOVALS AFFECT EXISTING CIRCUITS SCHEDULED TO REMAIN, MAINTAIN CONTINUITY OF POWER TO THESE CIRCUITS AND EXTEND WIRING AS NEEDED.
14. WHERE ANY EMPTY BACKBOXES OR EMPTY JUNCTION BOXES REMAIN DUE TO ELECTRICAL DEMOLITION, PROVIDE COVERPLATE(S) OVER EXISTING BOX(ES).
15. WHERE EQUIPMENT CONNECTIONS ARE SHOWN, REMOVE ELECTRICAL CONNECTION, CONDUIT AND WIRE BACK TO POWER SOURCE. DISCONNECT AND REMOVE ASSOCIATED CONTROLLER SERVING EQUIPMENT AND ASSOCIATED CONTROL WIRING.
16. DISCONNECT AND REMOVE EXISTING ELECTRIC WORK NOT NECESSARY FOR EXISTING OR NEW INSTALLATION, BUT INTERFERING WITH NEW CONSTRUCTION.
17. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ANY AND ALL EXISTING ELECTRIC WORK REQUIRED TO REMAIN, BUT INTERFERING WITH NEW CONSTRUCTION.
18. WHERE DEMOLITION NOTES SCHEDULE EXISTING WIRING DEVICES, LIGHTING FIXTURES, SYSTEMS DEVICES, EQUIPMENT CONNECTIONS, ETC. TO BE "DISCONNECTED AND REMOVED IN THE ENTIRETY", THE CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING LIGHTING FIXTURE, WIRING DEVICES, COVERPLATES, BRANCH CIRCUIT WIRING, CONDUIT OR RACEWAY, OUTLET AND/OR SPLICE BOX(ES) ETC. BACK TO EITHER LAST DEVICE SCHEDULED TO REMAIN, OR BACK TO POWER SOURCE.
19. PROPERLY DISPOSE OF ALL PCB CONTAINING FLUORESCENT BALLASTS MANUFACTURED PRIOR TO 1980 ACCORDING TO STATE AND FEDERAL REGULATIONS.
20. IF ADDITIONAL SUSPECT ASBESTOS-CONTAINING MATERIALS ARE DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER AND ARCHITECT TO WITH REGARD TO CONDUCTING ADDITIONAL BULK SAMPLING AND ABATEMENT AT THE OWNER'S EXPENSE.
21. **DISCONNECT AND REMOVE RECEPTACLES, LIGHTING, & ABANDONED DEVICES & RACEWAY. UNLESS NOTED OTHERWISE, LOW VOLTAGE CONTROL WIRING FOR PROCESS EQUIPMENT IS EXCLUDED FROM DEMOLITION SCOPE. 120V OR HIGHER CONNECTIONS TO PROCESS EQUIPMENT IS INCLUDED IN SCOPE. PREPARE EQUIPMENT FOR RECONNECTION WHERE SHOWN.**

DEVICE SUBSCRIPTS

+xx	HEIGHT OF DEVICE ABOVE FINISHED FLOOR (IN INCHES)
5	NUMERAL INDICATES BRANCH CIRCUIT NUMBER (POWER & LIGHTING)/CANDELA RATING (FIRE ALARM DEVICES)
A	WITH AUXILIARY CONTACTS
AC	INSTALL ABOVE COUNTER
CD	CORD DROP RECEPTACLE
CL	INSTALL FLUSH IN CEILING
CLS	INSTALL ON SURFACE OF CEILING
COP	RECEPTACLE FOR COPIER , INSTALL 18" AFF
COF	RECEPTACLE FOR COFFEE , INSTALL 44" AFF
ER	EXISTING TO BE REMOVED
ERL	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
EXP	EXPLOSION PROOF
FL	INSTALL FLUSH IN FLOOR
FB	INSTALL IN FLOORBOX/POKETHRU
FRA	FIRE RATED ASSEMBLY
GFCI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
GFI	GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED
HA	HIGH ABUSE COVERPLATE WITH CENTER PIT REJECT SCREWS
IG	ISOLATED GROUND RECEPTACLE
K	KEY OPERATED
L	LOCATOR STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS OFF OR UNPOWERED)
LV	LOW VOLTAGE
MCW	RECEPTACLE FOR MICROWAVE , INSTALL IN UPPER CABINET, COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
NL	NIGHT LIGHT LUMINAIRE (UNSWITCHED / INTEGRAL NIGHT LIGHT STYLE RECEPTACLE
OS	OCCUPANCY SENSOR (AUTOMATIC 'ON' LIGHTING SENSOR SWITCH)
P	PILOT STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS ON OR POWERED)
PH	FOR PHONE, INSTALL 54" AFF
PJ	RECEPTACLE FOR PROJECTOR , INSTALL FLUSH IN CEILING
REF	RECEPTACLE FOR REFRIGERATOR , INSTALL 44" AFF
S	INSTALL ON SURFACE
SP	SURGE PROTECTOR STYLE RECEPTACLE
SR	INSTALL IN SURFACE RACEWAY
SW	SPLIT WIRED RECEPTACLE FOR REMOTE SWITCHING
TR	TAMPER RESISTANT
TS	DIGITAL ELECTRONIC PROGRAMMABLE TIME SWITCH (LIGHTING SWITCH)
TV	FOR TELEVISION/MONITOR, INSTALL 72" AFF
UC	INSTALL UNDER COUNTER. COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
USB	RECEPTACLE WITH USB CHARGING PORTS
VEND	RECEPTACLE FOR VENDING MACHINE, INSTALL 44" AFF
VS	VACANCY SENSOR (MANUAL 'ON' LIGHTING SENSOR SWITCH)
WG	WIRE GUARD
WP	WEATHERPROOF DEVICE / WEATHERPROOF WHILE-IN-USE EXTRA DUTY COVER & WEATHER RESISTANT RECEPTACLE

ABBREVIATIONS

°	DEGREES
Δ	DELTA
Ω	OHMS
Ø	PHASE
Y	WYE
A	AMPERE
AFCI	ARC-FAULT CIRCUIT INTERRUPTING
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ALUM	ALUMINUM
AM	AMMETER
ANN	ANNUNCIATOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKBD	BACKBOARD
BLDG	BUILDING
C	CONDUIT
CTV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CM	CONSTRUCTION MANAGER
CO	COMPANY/CARBON MONOXIDE
COAX	COAXIAL CABLE
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DN	DOWN
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DVR	DIGITAL VIDEO RECORDER
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRIC
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE DEVICE
EQUIP	EQUIPMENT
EXH	EXHAUST
EPRF	EXPLOSION PROOF
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FLR	FLOOR
FU SW	FUSED SWITCH
FTL	FEED THRU LUGS
GC	GENERAL CONTRACTOR
GEC	GROUND ELECTRODE CONDUCTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
GFI	GROUND FAULT INTERRUPTING
G	GROUND
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HSKPG	HOUSEKEEPING
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ (CYCLES/SECOND)
ID	INSIDE DIAMETER
IMC	INTERMEDIATE METAL CONDUIT
IP	INTERNET PROTOCOL
J	JUNCTION BOX
kAIC	KILOAMPERE INTERRUPTING CURRENT
kAIR	KILOAMPERE INTERRUPTING RATING
KO	KNOCK OUT
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kW	KILOWATT
kWh	KILOWATT HOUR
LAN	LOCAL AREA NETWORK
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LS	LIFE SAFETY
LTD	LONG TIME DELAY
LTG	LIGHTING
LV	LOW VOLTAGE
MAG	MAGNETIC
MAN	MANUAL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR/ METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPERES
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCS	MOLDED CASE SWITCH
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANELBOARD
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MINERAL INSULATED CABLE
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MM	MULTIMODE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N	NEUTRAL
NA	NOT APPLICABLE
NCC	NORMALLY CLOSED CONTACT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NOC	NORMALLY OPEN CONTACT/ NETWORK OPERATIONS CENTER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/OWNER INSTALLED
OH	OVERHEAD
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PULLBOX
PC	PERSONAL COMPUTER
PH	PHASE
PNL	PANEL
POE	POWER OVER ETHERNET
PRI	PRIMARY
PTZ	PAN TILT ZOOM
PVC	POLYVINYL CHLORIDE
PWR	POWER
RCP	REFLECTED CEILING PLANS
RECPT	RECEPTACLE
REF	REFRIGERATOR
RFID	RADIO FREQUENCY IDENTIFICATION DEVICE
RM	ROOM
RMC	RIGID METAL CONDUIT
SCH	SCHEDULE
SDMPR	SMOKE DAMPER
SEC	SECONDARY
SF	SUPPLY FAN
SFL	SUB FEED LUGS
SM	SINGLE MODE
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SPEC	SPECIFICATION
SPKR	SPEAKER
SST	STAINLESS STEEL
STD	SHORT TIME DELAY
STP	SHIELDED TWISTED PAIR
STR	STARTER
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TERM	TERMINAL
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPERE
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VEND	VENDING MACHINE
VSD	VARIABLE SPEED DRIVE
VOIP	VOICE OVER INTERNET PROTOCOL
VPI	VACUUM-PRESSURE IMPREGNATED
W	WATT
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
WR	WEATHER RESISTANT
XFMR	TRANSFORMER

ELECTRICAL EQUIPMENT

- 208/120V OR 240V PANELBOARD
- 480/277V PANELBOARD
- DISCONNECT SWITCH, TYPE PER EQUIPMENT CONNECTION SCHEDULE **[UNFUSED DISCONNECT SWITCH]**, SURFACE MOUNTED 48" AFF
- FUSED DISCONNECT SWITCH, SURFACE MOUNTED 48" AFF
- CB — SEPARATELY ENCLOSED CIRCUIT BREAKER, SURFACE MOUNTED 44" AFF
- FUSE (ONE-LINE NOTATION)
- XXXA-3P — CIRCUIT BREAKER (ONE-LINE NOTATION)
- XXXA-3P — LOW VOLTAGE DRAWOUT POWER CIRCUIT BREAKER (ONE-LINE NOTATION)
- XXXA-3P — MEDIUM VOLTAGE DRAWOUT POWER CIRCUIT BREAKER (ONE-LINE NOTATION)
- LOW VOLTAGE INTERRUPTER SWITCH (ONE-LINE NOTATION)
- MEDIUM VOLTAGE INTERRUPTER SWITCH (ONE-LINE NOTATION)
- TRANSFER SWITCH (ONE-LINE NOTATION)
- ISOLATION BYPASS TRANSFER SWITCH (ONE-LINE NOTATION)
- COMBINATION MOTOR CONTROLLER/DISCONNECT, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF
- MOTOR CONTROLLER, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF
- VSD / VFD — VARIABLE SPEED DRIVE/VARIABLE FREQUENCY DRIVE
- T — TRANSFORMER (PLAN NOTATION)
- TRANSFORMER (ONE-LINE NOTATION)
- 3-PHASE, 3-WIRE DELTA CONNECTION
- 3-PHASE, 4-WIRE WYE CONNECTION
- 3-PHASE, NEUTRAL UNGROUNDED WYE CONNECTION
- G — XXXkA-3P, LSIA, LSIG — ENGINE-GENERATOR SET (ONE-LINE NOTATION)
- POTENTIAL TRANSFORMER (ONE-LINE NOTATION)
- CURRENT TRANSFORMER (ONE-LINE NOTATION)
- DM — DIGITAL METERING MONITOR (ONE-LINE NOTATION)
- M — METER CABINET/SOCKET (ONE-LINE & PLAN NOTATION)
- PHOTOVOLTAIC MODULES
- J — JUNCTION BOX, HEIGHT AS INDICATED
- FJ — JUNCTION BOX, INSTALLED IN CEILING
- SINGLE PHASE MOTOR/PUMP CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE
- THREE PHASE MOTOR/PUMP CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE
- SINGLE POINT EQUIPMENT CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE
- TV — TV BACK BOX. SEE ELECTRICAL DETAILS FOR MORE INFORMATION.

11/6/2024 12:50:46 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

ELECTRICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS

DRAWING NUMBER:

E001

ELECTRICAL LEGEND

DEVICE SUBSCRIPTS

II	ROMAN NUMERAL INDICATES QUANTITY OF GANGED DEVICES UNDER COMMON FACEPLATE
+xx	HEIGHT OF DEVICE ABOVE FINISHED FLOOR (IN INCHES)
a	LOWER CASE LETTER(S) INDICATES SWITCH CONTROL ARRANGEMENT
5	NUMERAL INDICATES BRANCH CIRCUIT NUMBER (POWER & LIGHTING)/CANDELA RATING (FIRE ALARM DEVICES)
A	WITH AUXILIARY CONTACTS
AC	INSTALL ABOVE COUNTER, AT 40" AFF. COORDINATE WITH GC
B	REMOVE DEVICE AND INSTALL BLANK COVERPLATE
BF	BLANKFACE GFCI
CD	CORD DROP RECEPTACLE
CH	CLOCK HANGER RECEPTACLE
CL	INSTALL FLUSH IN CEILING
CLS	INSTALL ON SURFACE OF CEILING
C*	CONTROL POINT IDENTIFIER (* INDICATES CONTROL NUMBER)
COP	RECEPTACLE FOR COPIER , INSTALL 18" AFF
COF	RECEPTACLE FOR COFFEE , INSTALL 44" AFF
D	DIMMER SWITCH (LIGHTING CONTROL)
E	EXISTING BACKBOX TO REMAIN AND BE REUSED
EN	EXISTING BACKBOX WITH NEW DEVICE
EO	EQUIPMENT SUPPLIED BY OWNER
EQ	INSTALL IN EQUIPMENT/CASEWORK
ER	EXISTING TO BE REMOVED
ERL	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
EWC	RECEPTACLE FOR WATER COOLER. COORDINATE EXACT LOCATION WITH GC & PC PRIOR TO ROUGH-IN
EXP	EXPLOSION PROOF
FL	INSTALL FLUSH IN FLOOR
FB	INSTALL IN FLOORBOX/POKETHRU
FRA	FIRE RATED ASSEMBLY
GFCI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
GFI	GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED
GFP	FEED THROUGH GROUND FAULT CIRCUIT INTERRUPTING PROTECTED
H	INSTALL HORIZONTALLY
HA	HIGH ABUSE COVERPLATE WITH CENTER PIT REJECT SCREWS
IG	ISOLATED GROUND RECEPTACLE
K	KEY OPERATED
L	LOCATOR STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS OFF OR UNPOWERED)
LV	LOW VOLTAGE
M	INSTALL IN MULLION
M*	MONITORING POINT IDENTIFIER (* INDICATES MONITORING POINT NUMBER)
MCW	RECEPTACLE FOR MICROWAVE , INSTALL IN UPPER CABINET, COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
N	INDICATES NEW DEVICE
NIC	NOT IN CONTRACT/PROVIDE BY OTHERS
NL	NIGHT LIGHT LUMINAIRE (UNSWITCHED / INTEGRAL NIGHT LIGHT STYLE RECEPTACLE
NLG	INTEGRAL NIGHT LIGHT STYLE GFCI RECEPTACLE
O	OCCUPANCY SENSOR (AUTOMATIC 'ON' LIGHTING SENSOR SWITCH)
P	PILOT STYLE TOGGLE SWITCH (PILOT LIGHT 'ON' WHILE DEVICE IS ON OR POWERED)
PH	FOR PHONE, INSTALL 54" AFF
PI	POWER INDICATING RECEPTACLE
PJ	RECEPTACLE FOR PROJECTOR , INSTALL FLUSH IN CEILING
PP	BACKBOX FOR AUTODOOR PUSH PLATE
R*	RELAY DESIGNATION (* INDICATES RELAY NUMBER)
REF	RECEPTACLE FOR REFRIGERATOR , INSTALL 44" AFF
S	INSTALL ON SURFACE
SP	SURGE PROTECTOR STYLE RECEPTACLE
SR	INSTALL IN SURFACE RACEWAY
SW	SPLIT WIRED RECEPTACLE FOR REMOTE SWITCHING
T	DIGITAL ELECTRONIC INTERVAL TIMER (LIGHTING SWITCH)
TR	TAMPER RESISTANT
TS	DIGITAL ELECTRONIC PROGRAMMABLE TIME SWITCH (LIGHTING SWITCH)
TV	FOR TELEVISION/MONITOR, INSTALL 72" AFF
UC	INSTALL UNDER COUNTER. COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN
USB	RECEPTACLE WITH USB CHARGING PORTS
VEND	RECEPTACLE FOR VENDING MACHINE, INSTALL 44" AFF
V	VACANCY SENSOR (MANUAL 'ON' LIGHTING SENSOR SWITCH)
W	INSTALL 44" AFF
WG	WIRE GUARD
WP	WEATHERPROOF DEVICE / WEATHERPROOF WHILE-IN-USE EXTRA DUTY COVER & WEATHER RESISTANT RECEPTACLE
WPS	WEATHERPROOF SPRING LOADED COVER (WEATHERPROOF WHEN CLOSED), WEATHER RESISTANT RECEPTACLE
WR	WEATHER RESISTANT DEVICE/WEATHER RESISTANT RECEPTACLE
Z*	DEVICE ZONE IDENTIFIER (* INDICATES ZONE NUMBER)

GENERAL LINEWORK DESCRIPTIONS & DRAWINGS NOTES

- NEW WORK
- EXISTING WORK / FUTURE PROVISIONS / NOT IN CONTRACT WORK
- WORK TO BE REMOVED (DEMO PLANS) - DEVICE AND ALL ASSOCIATED ELECTRICAL WORK SHALL BE REMOVED BACK TO THE SOURCE, UNLESS NOTED OTHERWISE / UNDERFLOOR CONDUIT (NEW PLANS)
- WIRE AND / OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
- MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWING
- CALLOUT BOUNDARY - DETAIL AND / OR SECTION REFERENCE / SCOPE OF WORK
- BRANCH CIRCUIT BOUNDARY
- # DRAWING KEYED NOTES
- # BRANCH CIRCUITING NOTES
- # DEMO NOTE / FEEDER IDENTIFICATION
- # KITCHEN / LAB EQUIPMENT TAG
- SYMBOL WITH TAIL INDICATES WALL INSTALLATION, HEIGHT AS INDICATED
- INDICATES MULTIPLE DEVICES OF DIFFERENT TYPES INSTALLED UNDER COMMON COVERPLATE AT ONE LOCATION (DEVICES SHALL BE INSTALLED UNDER A COMMON COVERPLATE)

BRANCH CIRCUIT CONDUCTOR SIZING

CIRCUIT NOTATION:

11,13 ← CIRCUIT NUMBER(S)
1LNL1 ← SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)

PROVIDE MINIMUM WIRE SIZE AS FOLLOWED UNLESS NOTED OTHERWISE:
20A CB - #12 AWG
30A CB - #10 AWG
40A CB - #8 AWG
50A CB - #8 AWG
INCREASE SIZE OF CONDUCTOR FOR DISTANCE AS SHOWN BELOW IN 20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE.

20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE:

CONDUCTOR SIZE (AWG)	#12	#10	#8	#6	#4
MAXIMUM BRANCH CIRCUIT LENGTH AT 120V (FEET)	90	140	225	355	565
MAXIMUM BRANCH CIRCUIT LENGTH AT 277V (FEET)	205	325	520	825	1310

NOTES:

1. INCREASE ALL BRANCH CIRCUIT CONDUCTORS AS INDICATED BASED ON LENGTH OF CIRCUIT, INCLUDING EQUIPMENT GROUNDING CONDUCTOR.
2. TRANSITION FROM LARGER CONDUCTOR SIZE TO #12 AWG FOR FINAL TERMINATION TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN 10' OF OUTLET AND EXTEND #12 AWG CONDUCTORS TO OUTLET.
3. LENGTHS ARE FROM OVERCURRENT PROTECTIVE DEVICE, ALONG CIRCUIT ROUTING, TO CENTER OF EQUIPMENT LOAD.
4. SCHEDULE ASSUMES 12A LOAD, FOR LOADS HIGHER THAN 12A, INCREASE CONDUCTOR SIZE.

RACEWAY, BOXES, & BUSWAY

- LADDER STYLE CABLE TRAY, HUNG ABOVE CEILING OR AS NOTED
- WIRE BASKET, HUNG ABOVE CEILING OR AS NOTED
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CAPPED CONDUIT
- CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY
- SERVICE WEATHERHEAD
- SINGLE CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- DUAL CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- TRIPLE CHANNEL SURFACE RACEWAY, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- SURFACE RACEWAY ROUTED DOWN FROM CEILING TO HORIZONTAL
- SURFACE RACEWAY ROUTED UP FROM FLOOR TO HORIZONTAL
- SURFACE RACEWAY ENDPIECE
- SURFACE RACEWAY COUPLING
- DATA/POWER INDOOR SERVICE POLE
- MH: MANHOLE
- HH: HANDHOLE
- PP: POWER ASSIST PUSH PLATE BACKBOX- MOUNTED 44" AFF
- PP1: POWER ASSIST PUSH PLATE BACKBOX- MULLION MOUNTED 44" AFF
- B: DEVICE BOX WITH BLANK COVERPLATE, HEIGHT AS INDICATED
- B: DEVICE BOX WITH BLANK COVERPLATE, INSTALLED IN CEILING
- J: JUNCTION BOX, HEIGHT AS INDICATED
- J: JUNCTION BOX, INSTALLED IN CEILING
- PB: PULL BOX
- SYSTEMS CABINET, SURFACE OR FLUSH AS SHOWN, TOP OF TRIM 74" AFF
- MSB#: MULTI-SERVICE BOX, REFER TO MULTI-SERVICE BOX SCHEDULE FOR DETAILED INFORMATION
- FEEDER BUSWAY HORIZONTAL RUN
- PLUG-IN BUSWAY HORIZONTAL RUN
- BUSWAY VERTICAL RUN
- CBP: BUSWAY CIRCUIT BREAKER PLUG
- BUSWAY COMBINATION DUPLEX RECEPTACLE PLUG
- BUSWAY COMBINATION NEMA RECEPTACLE PLUG
- FSP: BUSWAY FUSED SWITCH PLUG
- MSB1: MULTISERVICE BOX, # INDICATES DESIGNATION, SEE MULTISERVICE BOX SCHEDULE

ELECTRICAL EQUIPMENT

- DISCONNECT SWITCH, TYPE PER EQUIPMENT CONNECTION SCHEDULE [UNFUSED DISCONNECT SWITCH], SURFACE MOUNTED 48" AFF
- FUSED DISCONNECT SWITCH, SURFACE MOUNTED 48" AFF
- CB: SEPARATELY ENCLOSED CIRCUIT BREAKER, SURFACE MOUNTED 44" AFF
- FUSE (ONE-LINE NOTATION)
- XXXA-3P: CIRCUIT BREAKER (ONE-LINE NOTATION)
- XXXA-3P: LOW VOLTAGE DRAWOUT POWER CIRCUIT BREAKER (ONE-LINE NOTATION)
- XXXA-3P: MEDIUM VOLTAGE DRAWOUT POWER CIRCUIT BREAKER (ONE-LINE NOTATION)
- LOW VOLTAGE INTERRUPTER SWITCH (ONE-LINE NOTATION)
- MEDIUM VOLTAGE INTERRUPTER SWITCH (ONE-LINE NOTATION)
- TRANSFER SWITCH (ONE-LINE NOTATION)
- ISOLATION BYPASS TRANSFER SWITCH (ONE-LINE NOTATION)
- CLOSED TRANSITION TRANSFER SWITCH (ONE-LINE NOTATION)
- M: FRACTIONAL HORSEPOWER MOTOR CONTROLLER, RECESSED 44" AFF OR ABOVE CEILING (MANUAL THERMAL SWITCH)
- COMBINATION MOTOR CONTROLLER/DISCONNECT, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF
- MOTOR CONTROLLER, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF
- VSD / VFD: VARIABLE SPEED DRIVE/VARIABLE FREQUENCY DRIVE
- T: TRANSFORMER (PLAN NOTATION)
- TRANSFORMER (ONE-LINE NOTATION)
- 3-PHASE, 3-WIRE DELTA CONNECTION
- 3-PHASE, 4-WIRE WYE CONNECTION
- 3-PHASE, NEUTRAL UNGROUNDED WYE CONNECTION
- G, XXXXA-3P, LSIA, LSIG: ENGINE-GENERATOR SET (ONE-LINE NOTATION)
- POTENTIAL TRANSFORMER (ONE-LINE NOTATION)
- CURRENT TRANSFORMER (ONE-LINE NOTATION)
- AM: AMMETER (ONE-LINE NOTATION)
- AM: AMMETER SWITCH (ONE-LINE NOTATION)
- VM: VOLTMETER (ONE-LINE NOTATION)
- VM: VOLTMETER SWITCH (ONE-LINE NOTATION)
- DM: DIGITAL METERING MONITOR (ONE-LINE NOTATION)
- M: METER CABINET/SOCKET (ONE-LINE & PLAN NOTATION)
- * #: PROTECTIVE RELAY (*INDICATES ANSI FUNCTION, NUMBER INDICATES QUANTITY) (ONE-LINE NOTATION)
- LIGHTING ARRESTER (ONE-LINE NOTATION)
- GC: GENERAL PURPOSE CONTACTOR, 60" AFF
- EC: ELEVATOR CONTACTOR, 60" AFF
- PHOTOVOLTAIC MODULES

ELECTRICAL DEVICES

GENERAL ELECTRICAL DEVICE NOTATION:

15 / 1LNL1 +30" PI

- SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)
- CIRCUIT #
- INSTALLATION HEIGHT TO CENTER OF DEVICE IN INCHES (IF OTHER THAN SPECIFIED ON LEGEND)
- SUBSCRIPT (IF APPLICABLE)

- NEMA 5-20R SIMPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R SIMPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R DUPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R GFCI DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, 18" AFF
- NEMA 5-20R QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R GFCI QUADPLEX (GFCI REC W/ DUPLEX ON LOAD SIDE UNDER COMMON COVERPLATE) RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) SIMPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) SIMPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) DUPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) GFCI DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, 18" AFF
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) QUADPLEX (DOUBLE DUPLEX) RECEPTACLE, INSTALLED FLUSH IN CEILING
- NEMA 5-20R RED (NEC 701 STANDBY POWER BRANCH) GFCI QUADPLEX (GFCI REC W/ DUPLEX ON LOAD SIDE UNDER COMMON COVERPLATE) RECEPTACLE, 18" AFF
- NEMA CONFIGURATION TO MATCH INDICATED EQUIPMENT OR AS CALLED OUT, 18" AFF
- MULTIOUTLET PLUGSTRIP, 6" ABOVE COUNTER BACKSPLASH OR AS NOTED
- S/S: START/STOP PUSHBUTTONS, STAINLESS STEEL NEMA 4X BOX WITH NEMA 4X PUSHBUTTONS, 54" AFF
- SPD: SURGE PROTECTION DEVICE, TOP OF ENCLOSURE 74" AFF
- LD CP: LEAK DETECTOR AND CONDENSATE PUMP. PROVIDE DUPLEX RECEPTACLE 120V, 1PHASE LOCATED NEXT TO THE UNIT.

PANELBOARDS

PANELBOARD DESIGNATIONS:

A 1 D N H 1

- BUILDING AREA
- LEVEL
- TYPE
- BRANCH
- VOLTAGE
- SEQUENCE NUMBER

NUMBERS IN SEQUENCE - 1,2,3, ETC.

H	480Y/277V
L	208V/120V OR 240V
N	NORMAL BRANCH
G	GENERATOR POWER
S	LIFE SAFETY BRANCH (NEC 517)
C	CRITICAL BRANCH (NEC 517)
E	EQUIPMENT BRANCH (NEC 517)
M	MIXED EXISTING BRANCH
E	EMERGENCY BRANCH (NEC 700)
S	STANDBY BRANCH (NEC 701)
O	OPTIONAL BRANCH (NEC 702)
D	DISTRIBUTION PANELBOARD
B	BRANCH CIRCUIT PANELBOARD
I	ISOLATED PANELBOARD
K	KITCHEN PANELBOARD
L	LIGHTING PANELBOARD
R	RECEPTACLE PANELBOARD
B	BASEMENT LEVEL
G	GROUND LEVEL
1	LEVEL 01
2	LEVEL 02
M	MEZZANINE LEVEL
A	AREA A *(PROJECT SPECIFIC)*
B	AREA B
C	AREA C

PANELBOARD - ONE-LINE NOTATION:

- 208/120V OR 240V SYSTEM
- 480/277V SYSTEM
- SHADING INDICATES BRANCH TYPE
- MCB: TEXT INDICATES LUG/ BREAKER TYPE
- 150A-3P: FEEDER BREAKERS (BRANCH BREAKERS SHOWN ON EACH PANELBOARD SCHEDULE)

PANELBOARD - FLOOR PLAN NOTATION:

DOOR STYLE (DESIGNATES VOLTAGE):

- 208/120V OR 240V SYSTEM
- 480/277V SYSTEM

SIZE (DESIGNATES PANELBOARD TYPE):

- PANELBOARD
- DISTRIBUTION PANELBOARD

FILL (DESIGNATES BRANCH TYPE):

- NORMAL BRANCH PANELBOARD
- NEC 700 EMERGENCY BRANCH PANELBOARD
- NEC 701 STANDBY BRANCH PANELBOARD
- NEC 702 OPTIONAL BRANCH PANELBOARD

EQUIPMENT DESIGNATIONS

A 1 T 1

- BUILDING AREA
- LEVEL
- EQUIPMENT NAME
- SEQUENCE NUMBER

NUMBERS IN SEQUENCE - 1,2,3, ETC.

ATSF	AUTOMATIC TRANSFER SWITCH, FIRE PUMP
ATSS	AUTOMATIC TRANSFER SWITCH, LIFE SAFETY (NEC 517)
ATSC	AUTOMATIC TRANSFER SWITCH, CRITICAL (NEC 517)
ATSE	AUTOMATIC TRANSFER SWITCH, EQUIPMENT (NEC 517)
ATSM	AUTOMATIC TRANSFER SWITCH, MIXED EXISTING
ATSE	AUTOMATIC TRANSFER SWITCH, EMERGENCY (NEC 700)
ATSS	AUTOMATIC TRANSFER SWITCH, STANDBY (NEC 701)
ATSO	AUTOMATIC TRANSFER SWITCH, OPTIONAL (NEC 702)
CB	CIRCUIT BREAKER
DS	UNFUSED DISCONNECT SWITCH
DT	DAY TANK
EC	ELEVATOR CONTACTOR
FAP	FIRE ALARM ANNUNCIATOR
FATC	FIRE ALARM TERMINAL CABINET
FDS	FUSED DISCONNECT SWITCH
GC	GENERAL PURPOSE CONTACTOR
IDRS	INTEGRATED DATA CENTER RACK SYSTEM
IEC	INTERCOM EQUIPMENT CABINET
IPC	INTEGRATED POWER CENTER
LC	LIGHTING CONTACTOR
LCC	LIGHTING CONTROL CABINET
LRC	LIGHTING RELAY CABINET
LVS	LOW VOLTAGE POWER SWITCHGEAR
MCCE	MOTOR CONTROL CENTER, EQUIPMENT (NEC 517)
MCCN	MOTOR CONTROL CENTER, NORMAL
MCCO	MOTOR CONTROL CENTER, OPTIONAL (NEC 702)
MCCS	MOTOR CONTROL CENTER, STANDBY (NEC 701)
MMC	MODULAR METER CENTER
MS	METER SOCKET
MTSS	MANUAL TRANSFER SWITCH, STANDBY (NEC 701)
MTSO	MANUAL TRANSFER SWITCH, OPTIONAL (NEC 702)
MVR	MEDIUM VOLTAGE REGULATOR
MVS	MEDIUM VOLTAGE SWITCHGEAR
PBL	PLUG-IN BUSWAY LIGHTING
PBP	PLUG-IN BUSWAY POWER
PSS	PRIMARY SUBSTATION
PSWGR	PARALLELING SWITCHGEAR
RUPS	ROTARY HYBRID UNINTERRUPTIBLE POWER SUPPLY
SPD	SURGE PROTECTIVE DEVICE
SWBDN	SWITCHBOARD, NORMAL
SWBDS	SWITCHBOARD, LIFE SAFETY (NEC 517)
SWBDC	SWITCHBOARD, CRITICAL (NEC 517)
SWBDE	SWITCHBOARD, EQUIPMENT (NEC 517)
SWBDE	SWITCHBOARD, EMERGENCY (NEC 700)
SWBDS	SWITCHBOARD, STANDBY (NEC 701)
SWBDO	SWITCHBOARD, OPTIONAL (NEC 702)
SWGR	SWITCHGEAR
T	TRANSFORMER
TBTP	TELECOMMUNICATION BACKBONE TERMINATION PANEL
TDTP	TELECOMMUNICATION DEVICE TERMINATION PANEL
TMGR	TELECOMMUNICATION MAIN GROUND BUS
TMGB	TELECOMMUNICATION ROOM GROUND BUS
TC	TIME CLOCK
UPS	UNINTERRUPTIBLE POWER SUPPLY
USSHV	UNIT SUBSTATION AT 480Y/277 SECONDARY VOLTAGE
USSLV	UNIT SUBSTATION AT 208Y/120 SECONDARY VOLTAGE
B	BASEMENT LEVEL
G	GROUND LEVEL
1	LEVEL 01
2	LEVEL 02
M	MEZZANINE LEVEL
A	AREA A *(PROJECT SPECIFIC)*
B	AREA B
C	AREA C

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

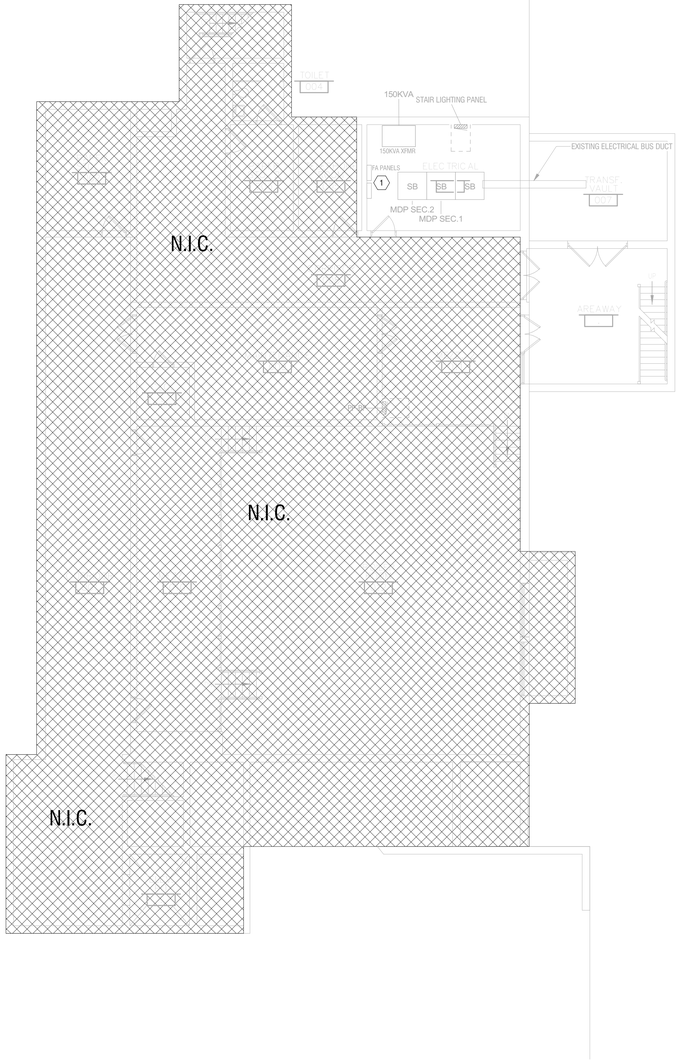
TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024

DRAWING NAME:
ELECTRICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS

DRAWING NUMBER:
E002



KEY NOTES:

1. PROVIDE TEMPORARY POWER TO BUILDING FIRE ALARM CONTROL PANEL(S) DURING CONSTRUCTION. COORDINATE EXACT LOCATION(S) WITH OWNER.

1 E100 BASEMENT ELECTRICAL PLAN
1/8" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

BASEMENT ELECTRICAL POWER PLAN

DRAWING NUMBER:

E100

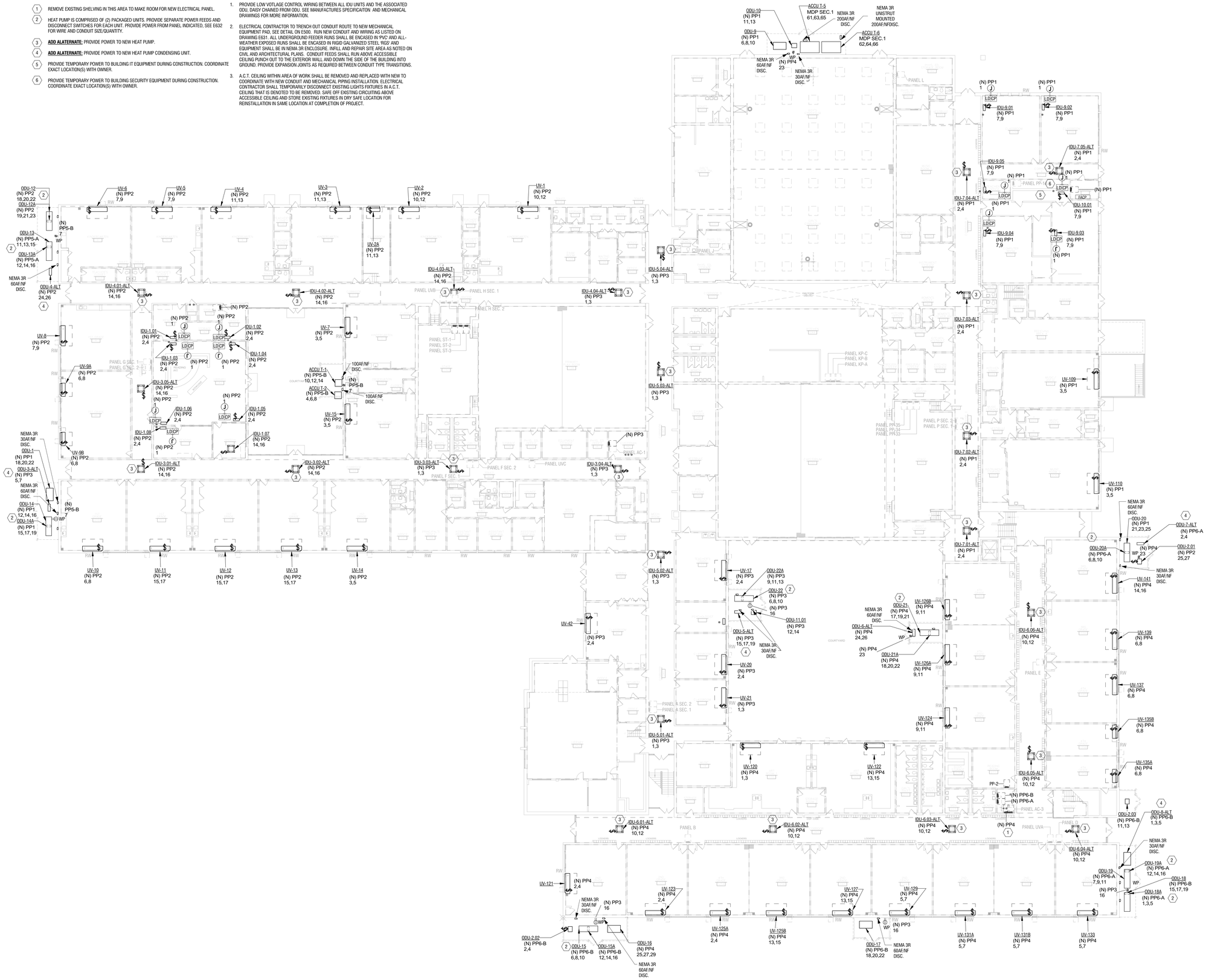
11/6/2024 12:50:50 PM

KEY NOTES:

1. REMOVE EXISTING SHELVING IN THIS AREA TO MAKE ROOM FOR NEW ELECTRICAL PANEL.
2. HEAT PUMP IS COMPRISED OF (2) PACKAGED UNITS. PROVIDE SEPARATE POWER FEEDS AND DISCONNECT SWITCHES FOR EACH UNIT. PROVIDE POWER FROM PANEL INDICATED, SEE E632 FOR WIRE AND CONDUIT SIZE/QUANTITY.
3. **ADD ALATERNATE:** PROVIDE POWER TO NEW HEAT PUMP.
4. **ADD ALATERNATE:** PROVIDE POWER TO NEW HEAT PUMP CONDENSING UNIT.
5. PROVIDE TEMPORARY POWER TO BUILDING IT EQUIPMENT DURING CONSTRUCTION. COORDINATE EXACT LOCATION(S) WITH OWNER.
6. PROVIDE TEMPORARY POWER TO BUILDING SECURITY EQUIPMENT DURING CONSTRUCTION. COORDINATE EXACT LOCATION(S) WITH OWNER.

GENERAL NOTES:

1. PROVIDE LOW VOTLAGE CONTROL WIRING BETWEEN ALL IDU UNITS AND THE ASSOCIATED ODU, DAISY CHAINED FROM ODU. SEE MANUFACTURES SPECIFICAITON AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
2. ELECTRICAL CONTRACTOR TO TRENCH OUT CONDUIT ROUTE TO NEW MECHANICAL EQUIPMENT PAD. SEE DETAIL ON E500. RUN NEW CONDUIT AND WIRING AS LISTED ON DRAWING E631. ALL UNDERGROUND FEEDER RUNS SHALL BE ENCASED IN 'PVC' AND ALL-WEATHER EXPOSED RUNS SHALL BE ENCASED IN RIGID GALVANIZED STEEL 'RGS' AND EQUIPMENT SHALL BE IN NEMA 3R ENCLOSURE. INFILL AND REPAIR SITE AREA AS NOTED ON CIVIL AND ARCHITECTURAL PLANS. CONDUIT FEEDS SHALL RUN ABOVE ACCESSIBLE CEILING PUNCH OUT TO THE EXTERIOR WALL AND DOWN THE SIDE OF THE BUILDING INTO GROUND. PROVIDE EXPANSION JOINTS AS REQUIRED BETWEEN CONDUIT TYPE TRANSITIONS.
3. A.C.T. CEILING WITHIN AREA OF WORK SHALL BE REMOVED AND REPLACED WITH NEW TO COORDINATE WITH NEW CONDUIT AND MECHANICAL PIPING INSTALLATION. ELECTRICAL CONTRACTOR SHALL TEMPORARILY DISCONNECT EXISTING LIGHTS FIXTURES IN A.C.T. CEILING THAT IS DENOTED TO BE REMOVED. SAFE OFF EXISTING CIRCUITING ABOVE ACCESSIBLE CEILING AND STORE EXISTING FIXTURES IN DRY SAFE LOCATION FOR REINSTALLATION IN SAME LOCATION AT COMPLETION OF PROJECT.



1 E101 1ST FLOOR ELECTRICAL PLAN

1/16" = 1'-0"

11/6/2024 12:59:51 PM

LaBella Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

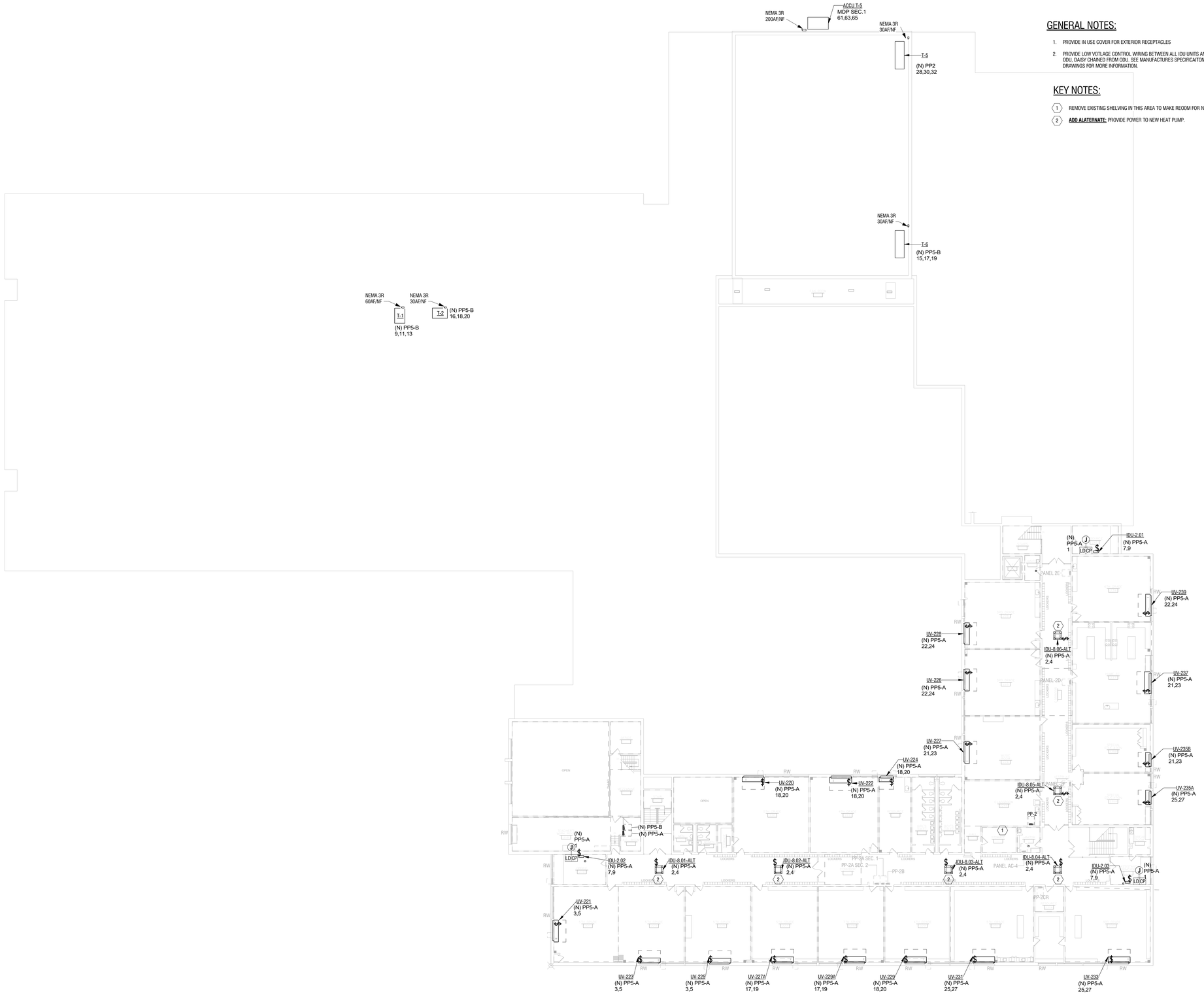
REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: FIRST FLOOR ELECTRICAL POWER PLAN

DRAWING NUMBER: E101



1 E102 2ND FLOOR ELECTRICAL PLAN

1/16" = 1'-0"

GENERAL NOTES:

1. PROVIDE IN USE COVER FOR EXTERIOR RECEPTACLES
2. PROVIDE LOW VOTLAGE CONTROL WIRING BETWEEN ALL IDU UNITS AND THE ASSOCIATED ODU, DAISY CHAINED FROM ODU. SEE MANUFACTURES SPECIFICAITON AND MECHANICAL DRAWINGS FOR MORE INFORMATION.

KEY NOTES:

1. REMOVE EXISTING SHELVING IN THIS AREA TO MAKE REOOM FOR NEW ELECTRICAL PANEL.
2. **ADD ALATERNATE:** PROVIDE POWER TO NEW HEAT PUMP.

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR ELECTRICAL POWER PLAN

DRAWING NUMBER:

E102

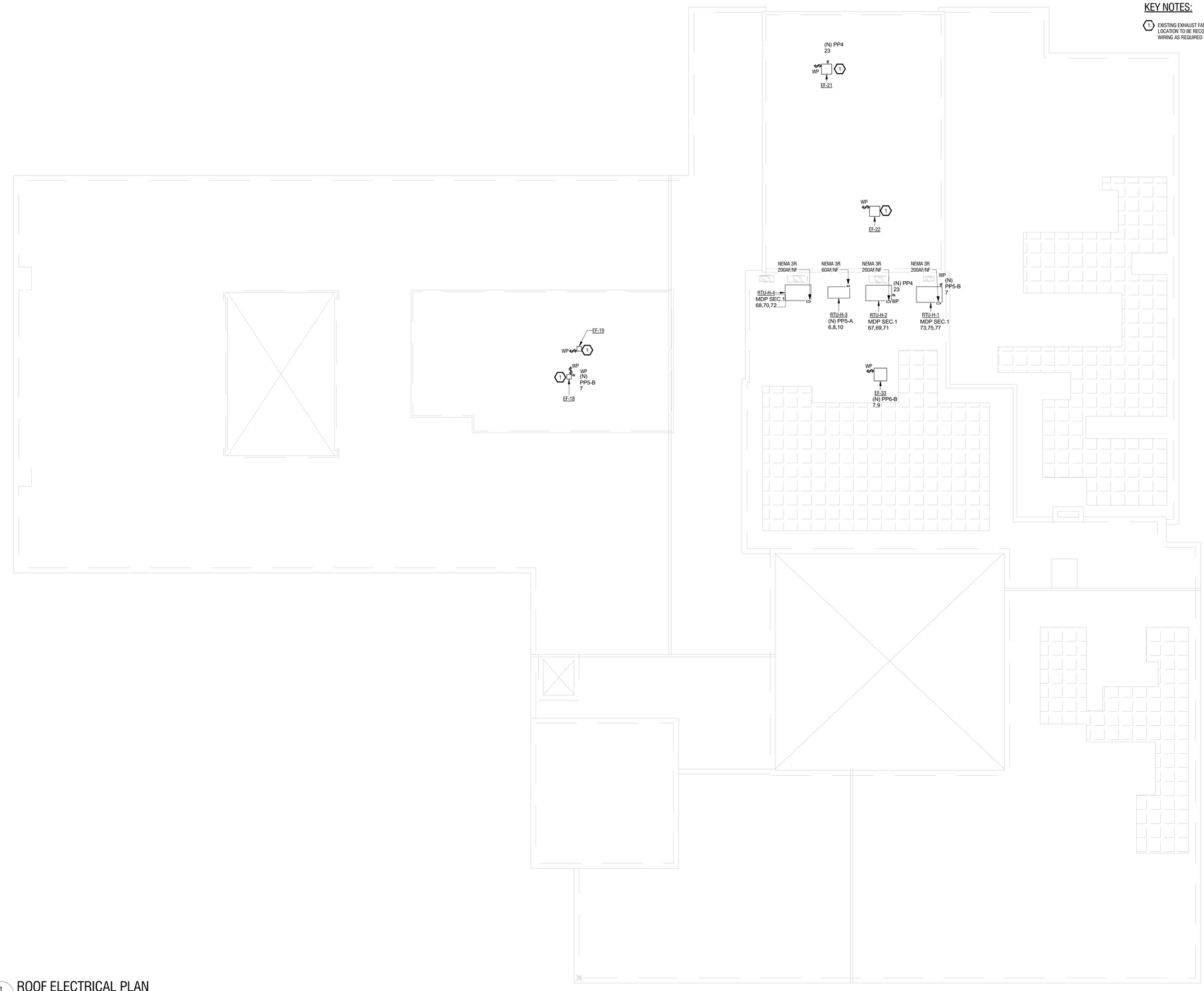
11/8/2024 12:50:52 PM

GENERAL NOTES:

1. PROVIDE IN USE COVER FOR EXTERIOR RECEPTACLES
2. ROVIDE LOW VOTLAGE CONTROL WIRING BETWEEN ALL IDU UNITS AND THE ASSOCIATED ODU, DAISY CHAINED FROM ODU. SEE MANUFACTURES SPECIFICATION AND MECHANICAL DRAWINGS FOR MORE INFORMATION.

KEY NOTES:

1 EXISTING EXHAUST FAN CIRCUITING PREVIOUSLY SERVIING THE EXHAUST FAN AT THIS LOCATION TO BE RECONNECTED TO NEW UNIT SHOWN. SPLICE AND EXTEND CONDUIT AND WIRING AS REQUIRED TO NEW LOCATION.



1 E103 ROOF ELECTRICAL PLAN
1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

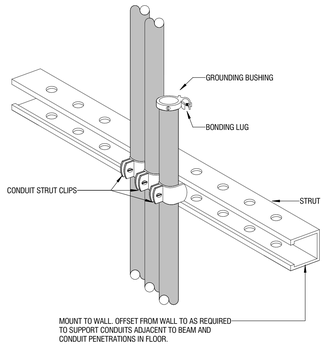
DRAWING NAME:

ROOF ELECTRICAL POWER PLAN

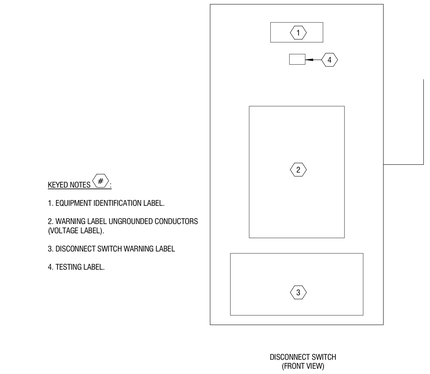
DRAWING NUMBER:

E103

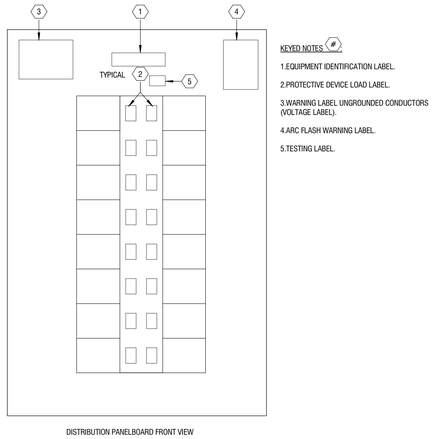
11/6/2024 12:50:52 PM



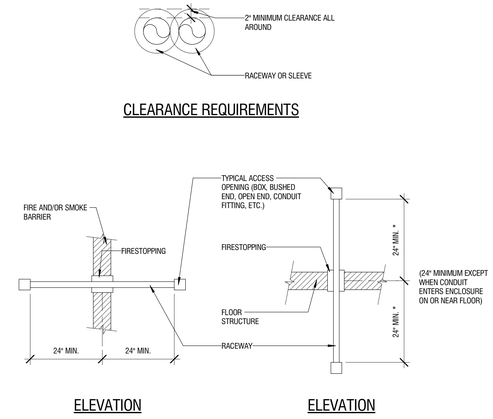
1 E500 CONDUIT ROUGH-IN SUPPORT
1/8" = 1'-0"



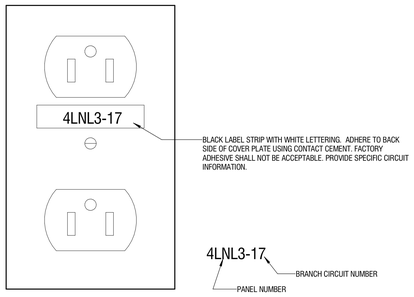
2 E500 DISCONNECT TYP
1/8" = 1'-0"



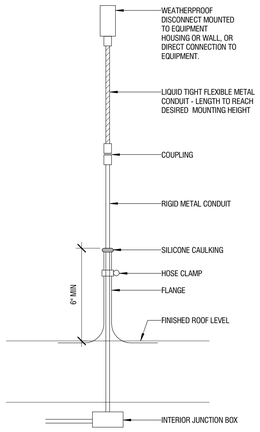
3 E500 DISTRIBUTION PANELBOARD
1/8" = 1'-0"



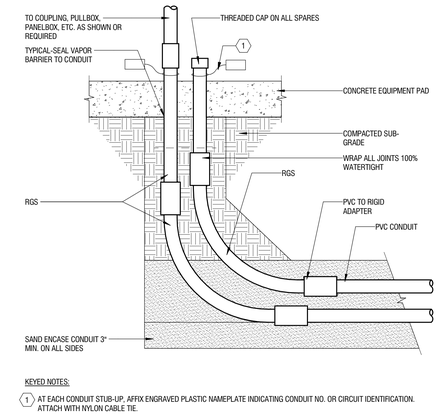
4 E500 PENETRATION THROUGH VERT. HORIZ. FIRE AND SMOKE BARRIER
1/8" = 1'-0"



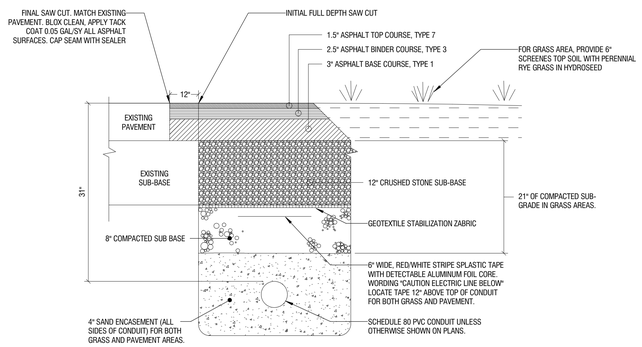
5 E500 TYPICAL NORMAL POWER RECEPTACLE IDENTIFICATION
1/8" = 1'-0"



6 E500 RACEWAY ROOF PENETRATION
1/8" = 1'-0"



7 E500 TYPICAL CONDUIT STUB-UP
1/8" = 1'-0"



8 E500 CONDUIT TRENCH DETAIL
1" = 30'-0"

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: ELECTRICAL DETAILS
DRAWING NUMBER: E500

11/6/2024 12:50:53 PM

DESIGNATION: MDP SEC.1

LOCATION:
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE:
DISTRIBUTION VOLTAGE: 120/208 Wye
OF PHASES: 3
OF WIRES: 4
MOUNTING: FREESTANDING
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 42 K
MAIN TYPE:
BUS RATING:
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	PANEL UVC	40 A	3	0	0					3	40 A	PANEL UVB	2
3	--	-- --	--			0	0			--	-- --	--	4
5	--	-- --	--					0	0	--	-- --	--	6
7	PANEL C	50 A	3	0	0					3	50 A	PANEL PP-2B	8
9	--	-- --	--			0	0			--	-- --	--	10
11	--	-- --	--					0	0	--	-- --	--	12
13	PANEL UVA	50 A	3	0	0					3	50 A	PANEL PP-2CR	14
15	--	-- --	--			0	0			--	-- --	--	16
17	--	-- --	--					0	0	--	-- --	--	18
19	PANEL E	70 A	3	0	0					3	150 A	PANEL PP-1A	20
21	--	-- --	--			0	0			--	-- --	--	22
23	--	-- --	--					0	0	--	-- --	--	24
25	PANEL B	90 A	3	0	0					3	90 A	PANEL D	26
27	--	-- --	--			0	0			--	-- --	--	28
29	--	-- --	--					0	0	--	-- --	--	30
31	PANEL J	90 A	3	0	0					3	90 A	PANEL 2E	32
33	--	-- --	--			0	0			--	-- --	--	34
35	--	-- --	--					0	0	--	-- --	--	36
37	PANEL L	90 A	3	0	0					3	90 A	PANEL PM	38
39	--	-- --	--			0	0			--	-- --	--	40
41	--	-- --	--					0	0	--	-- --	--	42
43	PANEL H SEC. 1	100 A	3	0	0					3	150 A	PANEL PP-2	44
45	--	-- --	--			0	0			--	-- --	--	46
47	--	-- --	--					0	0	--	-- --	--	48
49	EX. OVEN KITCHEN	70 A	3	0	0					3	100 A	PANEL AC-2	50
51	--	-- --	--			0	0			--	-- --	--	52
53	--	-- --	--					0	0	--	-- --	--	54
55	EX. A/C OVER OFFICE	125 A	3	0	0					3	70 A	EX. LOAD	56
57	--	-- --	--			0	0			--	-- --	--	58
59	--	-- --	--					0	0	--	-- --	--	60
61	**ACCU T-5**	**125 A**	**3**	9196.8	9196.8					**3**	**125 A**	**ACCU T-6**	62
63	--	-- --	--			9196.8	9196.8			--	-- --	--	64
65	--	-- --	--					9196.8	9196.8	--	-- --	--	66
67	**RTU-H-2**	**100 A**	**3**	9054.7	8850.7					**3**	**100 A**	**RTU-H-4**	68
69	--	-- --	--			9054.7	8850.7			--	-- --	--	70
71	--	-- --	--					9054.7	8850.7	--	-- --	--	72
73	**RTU-H-1**	**100 A**	**3**	9054.7	--					1	--	Space	74
75	--	-- --	--			9054.7	--			1	--	Space	76
77	--	-- --	--					9054.7	--	1	--	Space	78
	TOTAL CONNECTED PHASE LOADS:			45354 VA		45354 VA		45354 VA					
	TOTAL CONNECTED PHASE CURRENTS:			378 A		378 A		378 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
Other	136061 VA	75.00%	102046 VA		
				CONNECTED LOAD:	136061 VA
				ESTIMATED DEMAND LOAD:	102046 VA
				CONNECTED CURRENT:	378 A
				ESTIMATED DEMAND CURRENT:	283 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	283 A

TOTAL BUILDING ELECTRICAL LOADS:

CENTRAL HUDSON METER READING PEAK LOAD PRE-CONSTRUCTION: 280KVA
NEW EQUIPMENT LOAD: 551KVA
POTENTIAL LOAD SHED: (108KVA)
TOTAL CONNECTED LOAD: **723KVA**
TOTAL DEMAND LOAD: **585.25KVA**

DESIGNATION: (N) PP1

LOCATION: CLOSET
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
OF PHASES: 3
OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MLO
BUS RATING: 200 A
MCB TRIP: 200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	**LEAK DETECTOR AND CONDENSATE PUMP**	**20 A**	1	120	208					**2**	**15 A**	**IDU-7.01 - 7.05, 9.01 - 9.05, 10.01**	2
3	**UV-109,110**	**15 A**	2			832	208			--	-- --	--	4
5	--	-- --	--					832	3456	**3**	**45 A**	**ODU-9**	6
7	**IDU-9.01-10.01**	**15 A**	2	249.6	3456					--	-- --	--	8
9	--	-- --	--			249.6	3456			--	-- --	--	10
11	**ODU-10**	**15 A**	2					332.8	3504	**3**	**40 A**	**ODU-14A**	12
13	--	-- --	--	332.8	3504					--	-- --	--	14
15	**ODU-14**	**50 A**	3			4589	3504			--	-- --	--	16
17	--	-- --	--					4589	2620.7	**3**	**30 A**	**ODU-1**	18
19	--	-- --	--	4589	2620.7					--	-- --	--	20
21	**ODU-20A**	**40 A**	3			3504	2620.7			--	-- --	--	22
23	--	-- --	--					3504					24
25	--	-- --	--	3504									26
27													28
29													30
31													32
33													34
35													36
37	**Spare**	**20 A**	1	0	0					**1**	**20 A**	**Spare**	38
39	**Spare**	**20 A**	1			0	0			**1**	**20 A**	**Spare**	40
41	**Spare**	**20 A**	1					0	0	**1**	**20 A**	**Spare**	42
	TOTAL CONNECTED PHASE LOADS:			18543 VA		18922 VA		18838 VA					
	TOTAL CONNECTED PHASE CURRENTS:			155 A		158 A		157 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	36789 VA	75.00%	27591 VA		
Other	19395 VA	75.00%	14546 VA	CONNECTED LOAD:	56303 VA
Power	120 VA	100.00%	120 VA	ESTIMATED DEMAND LOAD:	42257 VA
				CONNECTED CURRENT:	156 A
				ESTIMATED DEMAND CURRENT:	117 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	117 A

DESIGNATION: (N) PP2

LOCATION: STORAGE 138
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
OF PHASES: 3
OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MLO
BUS RATING: 200 A
MCB TRIP: 200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	**LEAK DETECTOR AND CONDENSATE PUMP**	**20 A**	1	140	291.2					**2**	**15 A**	**IDU-1.01 - 1.06,1.08**	2
3	**UV-7,14,15**	**15 A**	2			1248	291.2			--	-- --	--	4
5	--	-- --	--					1248	1248	**2**	**15 A**	**UV-9A,9B,10**	6
7	**UV-5,6,8**	**15 A**	2	1248	1248					--	-- --	--	8
9	--	-- --	--			1248	832			**2**	**15 A**	**UV-1,2**	10
11	**UV-2A,3,4**	**15 A**	2					1248	832	--	-- --	--	12
13	--	-- --	--	1248	291.2					**2**	**15 A**	**IDU-3.01 - 3.03, 3.05, 4.01 - 4.03, 1.07**	14
15	**UV-11,12,13**	**15 A**	2			1248	291.2			--	-- --	--	16
17	--	-- --	--					1248	3504	**3**	**40 A**	**ODU-12A**	18
19	**ODU-12**	**50 A**	3	4589	3504					--	-- --	--	20
21	--	-- --	--			4589	3504			--	-- --	--	22
23	--	-- --	--					4589	2421.1	**2**	**35 A**	**ODU-4**	24
25	**ODU-2.01**	**15 A**	2	1081.5	2421.1					--	-- --	--	26
27	--	-- --	--			1081.5	1228.8			**3**	**15 A**	**T-5**	28
29									1228.8	--	-- --	--	30
31					1228.8					--	-- --	--	32
33													34
35													36
37	**Spare**	**20 A**	1	0	0					**1**	**20 A**	**Spare**	38
39	**Spare**	**20 A**	1			0	0			**1**	**20 A**	**Spare**	40
41	**Spare**	**20 A**	1					0	0	**1**	**20 A**	**Spare**	42
	TOTAL CONNECTED PHASE LOADS:			16829 VA		15359 VA		17251 VA					
	TOTAL CONNECTED PHASE CURRENTS:			142 A		128 A		146 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	45025 VA	75.00%	33769 VA		
Other	4269 VA	75.00%	3202 VA	CONNECTED LOAD:	49418 VA
Power	140 VA	100.00%	140 VA	ESTIMATED DEMAND LOAD:	37098 VA
				CONNECTED CURRENT:	137 A
				ESTIMATED DEMAND CURRENT:	103 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	103 A

DESIGNATION: (N) PP3

LOCATION: CUSTODIAN 182
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
OF PHASES: 3
OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MLO
BUS RATING: 200 A
MCB TRIP: 200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	**IDU-3.03, 3.04, 4.04, 5.01-5.04, UV-21**	**15 A**	2	672.1	1248					**2**	**15 A**	**UV-17,20,42**	2
3	--	-- --	--			672.1	1248			--	-- --	--	4
5	**ODU-3**	**35 A**	2					2421.1	3504	**3**	**40 A**	**ODU-22A**	6
7	--	-- --	--	2421.1	3504					--	-- --	--	8
9	**ODU-22**	**50 A**	3			4589	3504			--	-- --	--	10
11	--	-- --	--					4589	1081.5	**2**	**15 A**	**ODU-11.01**	12
13	--	-- --	--	4589	1081.5					--	-- --	--	14
15	**ODU-5**	**30 A**	3			3278.4	720			**1**	**20 A**	**Receptacle**	16
17	--	-- --	--					3278.4	0	**1**	**20 A**	**Spare**	18
19	--	-- --	--	3278.4	0					**1**	**20 A**	**Spare**	20
21	**Spare**	**20 A**	1			0	0			**1**	**20 A**	**Spare**	22
23	**Spare**	**20 A**	1					0	0	**1**	**20 A**	**Spare**	24
25	**Spare**	**20 A**	1	0	0					**1**	**20 A**	**Spare**	26
27	**Spare**	**20 A**	1			0	0			**1**	**20 A**	**Spare**	28
29	**Spare**	**20 A**	1					0	0	**1**	**20 A**	**Spare**	30
31	**Spare**	**20 A**	1	0	0					**1**	**20 A**	**Spare**	32
33	**Spare**	**20 A**	1			0	0			**1**	**20 A**	**Spare**	34
35	**Spare**	**20 A**	1					0	0	**1**	**20 A**	**Spare**	36
37	**Spare**	**20 A**	1	0	0					**1**	**20 A**	**Spare**	38
39	**Spare**	**20 A**	1			0	0			**1**	**20 A**	**Spare**	40
41	**Spare**	**20 A**	1					0	0	**1**	**20 A**	**Spare**	42
	TOTAL CONNECTED PHASE LOADS:			16371 VA		13989 VA		14467 VA					
	TOTAL CONNECTED PHASE CURRENTS:			137 A		117 A		121 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	34366 VA	75.00%	25700 VA		
Other	9835 VA	75.00%	7376 VA	CONNECTED LOAD:	44765 VA
Receptacle	720 VA	100.00%	720 VA	ESTIMATED DEMAND LOAD:	33753 VA
				CONNECTED CURRENT:	124 A
				ESTIMATED DEMAND CURRENT:	94 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	94 A

DESIGNATION: (N) PP4

LOCATION: JANITOR 275
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
OF PHASES: 3
OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MLO
BUS RATING: 200 A
MCB TRIP: 200 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	**UV-120**	**15 A**	2	416	1248					**2**	**15 A**	**UV-121,123,125A**	2
3	--	-- --	--			416	1248			--	-- --	--	4
5	**UV-131A,131B,133,129**	**15 A**	2					1664	1664	**2**	**15 A**	**UV-135A,135B,137,139**	6
7	--	-- --	--	1664	1664					--	-- --	--	8
9	**UV-124,126A,126B**	**15 A**	2			1248	249.6			**2**	**15 A**	**IDU-6.01 - 6.01**	10
11	--	-- --	--					1248	249.6	--	-- --	--	12
13	**UV-125B,127,122**	**15 A**	2	1248	416					**2**	**15 A**	**UV-141**	14
15	--	-- --	--			1248	416			--	-- --	--	16
17	**ODU-21A**	**40 A**	3					3504	4589	**3**	**50 A**	**ODU-21**	18
19	--	-- --	--	3504	4589					--	-- --	--	20
21	--	-- --	--			3504	4589			--	-- --	--	22
23	**Receptacle**	**20 A**	1					900	2421.1	**2**	**35 A**	**ODU-6**	24
25	**ODU-16**	**30 A**	3	2620.8	2421.1					--	-- --	--	26
27	--	-- --	--			2620.8	0			**1**	**20 A**	**Spare**	28
29	--	-- --	--					2620.8	0	**1**	**20 A**	**Spare**	30
31	**Spare**	**20 A**	1	0	0					**1**	**20 A**	**Spare**	32
33	**Spare**	**20 A**	1			0	0			**1**	**20 A**	**Spare**	34
35	**Spare**	**20 A**	1					0	0	**1**	**20 A**	**Spare**	36
37	**Spare**	**20 A**	1	0	0					**1**	**20 A**	**Spare**	38
39	**Spare**	**20 A**	1			0	0			**1**	**20 A**	**Spare**	40
41	**Spare**	**20 A**	1					0	0	**1**	**20 A**	**Spare**	42
	TOTAL CONNECTED PHASE LOADS:			19470 VA		15490 VA		18502 VA					
	TOTAL CONNECTED PHASE CURRENTS:			166 A		129 A		158 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	52542 VA	75.00%	39406 VA		
Receptacle	900 VA	100.00%	900 VA	CONNECTED LOAD:	53441 VA
				ESTIMATED DEMAND LOAD:	40305 VA
				CONNECTED CURRENT:	148 A
				ESTIMATED DEMAND CURRENT:	112 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	112 A

LaBella
Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

ELECTRICAL PANEL SCHEDULES

DRAWING NUMBER:

E600

11/8/2024 12:50:55 PM

DESIGNATION: (N) PP5-A

LOCATION: A.C. ROOM
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MLO
BUS RATING: 400 A
MODIFICATIONS: PROVIDED WITH FEED-THRU LUGS

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	LEAK DETECTOR AND CONDENSATE PUMP	20 A	1	60	249.6					2	15 A	IDU-2.01 - 2.03, 8.01 - 8.06	2
3	UV-221,223,225	15 A	2			1248	249.6			--	-- --	--	4
5	--	-- --	--					1248	4263	3	50 A	RTU-H-3	6
7	IDU-2.01 -.04	15 A	2	124.8	4263					--	-- --	--	8
9	--	-- --	--			124.8	4263			--	-- --	--	10
11	ODU-13A	40 A	3					3504	4589	3	50 A	ODU-13	12
13	--	-- --	--	3504	4589					--	-- --	--	14
15	--	-- --	--			3504	4589			--	-- --	--	16
17	UV-227A,229A	15 A	2					832	1664	2	15 A	UV-220,222,224,229	18
19	--	-- --	--	832	1664					--	-- --	--	20
21	UV-235B,237,227	15 A	2			1248	1248			2	15 A	UV-224,226,228,239	22
23	--	-- --	--					1248	1248	--	-- --	--	24
25	UV-231,233,235A	15 A	2	1248	0					1	20 A	Spare	26
27	--	-- --	--			1248	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			16485 VA		17673 VA		18596 VA					
	TOTAL CONNECTED PHASE CURRENTS:			137 A		149 A		156 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	39655 VA	75.00%	29742 VA		
Other	13039 VA	75.00%	9779 VA	CONNECTED LOAD:	52754 VA
Power	60 VA	100.00%	60 VA	ESTIMATED DEMAND LOAD:	39580 VA
				CONNECTED CURRENT:	146 A
				ESTIMATED DEMAND CURRENT:	110 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	110 A

DESIGNATION: (N) PP6-A

LOCATION: JANITOR 275
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MLO
BUS RATING: 400 A
MODIFICATIONS: PROVIDED WITH FEED-THRU LUGS

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	ODU-18	50 A	3	4589	2421.1					2	35 A	ODU-7	2
3	--	-- --	--			4589	2421.1			--	-- --	--	4
5	--	-- --	--					4589	4589	3	50 A	ODU-20	6
7	ODU-19A	40 A	3	3504	4589					--	-- --	--	8
9	--	-- --	--			3504	4589			--	-- --	--	10
11	--	-- --	--					3504	4589	3	50 A	ODU-19	12
13	Spare	20 A	1	0	4589					--	-- --	--	14
15	Spare	20 A	1			0	4589			--	-- --	--	16
17	Spare	20 A	1					0	0	1	20 A	Spare	18
19	Spare	20 A	1	0	0					1	20 A	Spare	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			19371 VA		19371 VA		17271 VA					
	TOTAL CONNECTED PHASE CURRENTS:			164 A		164 A		144 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	55987 VA	75.00%	41990 VA		
				CONNECTED LOAD:	55987 VA
				ESTIMATED DEMAND LOAD:	41990 VA
				CONNECTED CURRENT:	155 A
				ESTIMATED DEMAND CURRENT:	117 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	117 A

DESIGNATION: (N) PP5-B

LOCATION: A.C. ROOM
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MLO
BUS RATING: 400 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1													2
3							9054.7			3	80 A	ACCU T-2	4
5									9054.7	--	-- --	--	6
7	Receptacle	20 A	1	900	9054.7					--	-- --	--	8
9	T-1	35 A	3			2496	5102.1			3	80 A	ACCU T-1	10
11	--	-- --	--					2496	5102.1	--	-- --	--	12
13	--	-- --	--	2496	5102.1					--	-- --	--	14
15	T-5	15 A	3			1228.8	1382.3			3	25 A	T-2	16
17	--	-- --	--					1228.8	1382.3	--	-- --	--	18
19	--	-- --	--	1228.8	1382.3					--	-- --	--	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			20164 VA		19264 VA		19264 VA					
	TOTAL CONNECTED PHASE CURRENTS:			168 A		161 A		161 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
Other	57792 VA	75.00%	43344 VA		
Receptacle	900 VA	100.00%	900 VA	CONNECTED LOAD:	58692 VA
				ESTIMATED DEMAND LOAD:	44244 VA
				CONNECTED CURRENT:	163 A
				ESTIMATED DEMAND CURRENT:	123 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	123 A

DESIGNATION: (N) PP6-B

LOCATION: JANITOR 275
FED FROM:
SERVICE ENTRANCE LABEL:
OPTIONS:

DESIGN BASE: SQUARE D XX SERIES
DISTRIBUTION VOLTAGE: 120/208 Wye
 # OF PHASES: 3
 # OF WIRES: 4
MOUNTING: SURFACE
ENCLOSURE TYPE: NEMA 1

FULLY RATED AIC: 22000
MAIN TYPE: MLO
BUS RATING: 400 A
MODIFICATIONS:

PANELBOARD SCHEDULE NOTATION:
* PROVIDE GFCI TYPE BREAKER
** REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
*** COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A		B		C		POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	ODU-8	30 A	3	3278.3	1081.5					2	15 A	ODU-2.02	2
3	--	-- --	--			3278.3	1081.5			--	-- --	--	4
5	--	-- --	--					3278.3	3504	3	40 A	ODU-15	6
7	EF-33	15 A	2	915.2	3504					--	-- --	--	8
9	--	-- --	--			915.2	3504			--	-- --	--	10
11	ODU-2.03	15 A	2					1081.5	4589	3	50 A	ODU-15A	12
13	--	-- --	--	1081.5	4589					--	-- --	--	14
15	ODU-18A	40 A	3			3504	4589			--	-- --	--	16
17	--	-- --	--					3504	2620.8	3	30 A	ODU-17	18
19	--	-- --	--	3504	2620.8					--	-- --	--	20
21	Spare	20 A	1			0	2620.8			--	-- --	--	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
	TOTAL CONNECTED PHASE LOADS:			20282 VA		19339 VA		18424 VA					
	TOTAL CONNECTED PHASE CURRENTS:			170 A		162 A		154 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND LOAD	TOTALS	
HVAC	56212 VA	75.00%	42159 VA		
Other	1830 VA	75.00%	1373 VA	CONNECTED LOAD:	58041 VA
				ESTIMATED DEMAND LOAD:	43530 VA
				CONNECTED CURRENT:	161 A
				ESTIMATED DEMAND CURRENT:	121 A
				NON-COINCIDENT HEATING/COOLING:	0 A
				ESTIMATED DEMAND - NC HEAT/COOL:	121 A

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: ELECTRICAL PANEL SCHEDULES
DRAWING NUMBER: E601

11/6/2024 12:50:57 PM

ELECTRICAL POWER - AIR COOLED CONDENSING UNITS (ACCU)

	EQUIPMENT INFORMATION				ELECTRICAL										
TAG	MANUFACTURER	MODEL NUMBER	SERVES	LOCATION	SUPPLY VOLTAGE	NUMBER OF POLES	MOP	MCA	VA	Panel	Circuit Number	CONNECTION TYPE	DISCONNECT	CONDUCTORS & CONDUIT	NOTES
ACCU T-1	DAIKIN	RCS10H150C	PLAYROOM WEST AND STAGE	ROOF	208V/3PH	3	80	53	15306.4	(N) PP5-B	10,12,14	HARDWIRED	100AF/NF	(1 SET) 4#3+1#8G IN 1-1/4"C	
ACCU T-2	DAIKIN	DX14XA1203A	PLAYROOM EAST	ROOF	208V/3PH	3	80	47.7	13775.76	(N) PP5-B	4,6,8	HARDWIRED	200AF/NF	(1 SET) 4#2+1#6G IN 1-1/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ACCU T-5	DAIKIN	RCS020D	GYM	ROOF	208V/3PH	3	125	95.8	27590.4	MDP SEC.1	61,63,65	HARDWIRED	200AF/NF	(1 SET) 4#1+1#6G IN 1-1/2"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ACCU T-6	DAIKIN	RCS020D	GYM	ROOF	208V/3PH	3	125	95.8	27590.4	MDP SEC.1	62,64,66	HARDWIRED	200AF/NF	(1 SET) 4#1+1#6G IN 1-1/2"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.

ELECTRICAL POWER - AIR-COOLED VRV HEAT PUMP CONDENSING UNIT SCHEDULE

	BASIS OF DESIGN		ELECTRICAL											
TAG	MANUFACTURER	MODEL NUMBER	VOLTAGE/PHASE	Number of Poles	MOP	RLA	MCA	VA	PANEL	CIRCUIT BREAKER	CONNECTION TYPE	DISCONNECT	CONDUCTORS & CONDUIT	NOTES
ODU-1	DAIKIN	RXYQ72AATJA	208V/3PH	3	30	11.1	27.3	7862	(N) PP1	18,20,22	HARDWIRED	30AF/NF	(1 SET) 4#10+1#10G IN 3/4"C	
ODU-2.01	DAIKIN	RXL12QMVJU9	208V/1PH	2	15	12.0	13.0	2163	(N) PP2	25,27	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
ODU-2.02	DAIKIN	RXL12QMVJU9	208V/1PH	2	15	12.0	13.0	2163	(N) PP6-B	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
ODU-2.03	DAIKIN	RXL12QMVJU9	208V/1PH	2	15	12.0	13.0	2163	(N) PP6-B	11,13	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
ODU-3-ALT	DAIKIN	RXTQ60TBVJUA	208V/1PH	2	35	23.2	29.1	4842.2	(N) PP3	5,7	HARDWIRED	60AF/NF	(1 SET) 3#8+1#10G IN 3/4"C	
ODU-4-ALT	DAIKIN	RXTQ48TBVJUA	208V/1PH	2	35	19	29.1	4842.2	(N) PP2	24,26	HARDWIRED	60AF/NF	(1 SET) 3#8+1#10G IN 3/4"C	
ODU-5-ALT	DAIKIN	RXYQ72AATJA	208V/3PH	3	30	11.1	27.3	7862	(N) PP3	15,17,19	HARDWIRED	30AF/NF	(1 SET) 4#10+1#10G IN 3/4"C	
ODU-6-ALT	DAIKIN	RXTQ48TBVJUA	208V/1PH	2	35	19	29.1	4842.2	(N) PP4	24,26	HARDWIRED	60AF/NF	(1 SET) 3#8+1#10G IN 3/4"C	
ODU-7-ALT	DAIKIN	RXTQ60TBVJUA	208V/1PH	2	35	23.2	29.1	4842.2	(N) PP6-A	2,4	HARDWIRED	60AF/NF	(1 SET) 3#8+1#10G IN 3/4"C	
ODU-8-ALT	DAIKIN	RXYQ72AATJA	208V/3PH	3	30	11.1	27.3	7862	(N) PP6-B	1,3,5	HARDWIRED	30AF/NF	(1 SET) 4#10+1#10G IN 3/4"C	
ODU-9	DAIKIN	RXYQ96AATJA	208V/3PH	3	45	23.8	36.3	10454	(N) PP1	6,8,10	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G-3/4"C	
ODU-10	DAIKIN	RK12BXVJU	208V/1PH	2	15	2.9	4	665.6	(N) PP1	11,13	HARDWIRED	30AF/NF	(1 SET) 3#12+1#12G IN 3/4"C	
ODU-11.01	DAIKIN	RXL12QMVJU9	208V/1PH	2	15	12.0	13.0	2163	(N) PP3	12,14	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
ODU-12	DAIKIN	RXYQ264AATJA	208V/3PH	3	40	21.3	36.5	10519	(N) PP2	18,20,22	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-12A	DAIKIN	RXYQ264AATJA	208V/3PH	3	50	25.8	47.8	13766.4	(N) PP2	19,21,23	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-13	DAIKIN	RXYQ264AATJA	208V/3PH	3	40	21.3	36.5	10519	(N) PP5-A	11,13,15	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-13A	DAIKIN	RXYQ264AATJA	208V/3PH	3	50	25.8	47.8	13766.4	(N) PP5-A	12,14,16	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-14	DAIKIN	RXYQ264AATJA	208V/3PH	3	40	21.3	36.5	10519	(N) PP1	12,14,16	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-14A	DAIKIN	RXYQ264AATJA	208V/3PH	3	50	25.8	47.8	13766.4	(N) PP1	15,17,19	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-15	DAIKIN	RXYQ264AATJA	208V/3PH	3	40	21.3	36.5	10519	(N) PP6-B	6,8,10	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-15A	DAIKIN	RXYQ264AATJA	208V/3PH	3	50	25.8	47.8	13766.4	(N) PP6-B	12,14,16	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-16	DAIKIN	RXYQ72AATJA	208V/3PH	3	30	11.1	27.3	7862	(N) PP4	25,27,29	HARDWIRED	60AF/NF	(1 SET) 4#6+1#10G IN 1"C	
ODU-17	DAIKIN	RXYQ72AATJA	208V/3PH	3	30	11.1	27.3	7862	(N) PP6-B	18,20,22	HARDWIRED	60AF/NF	(1 SET) 4#6+1#10G IN 1"C	
ODU-18	DAIKIN	RXYQ264AATJA	208V/3PH	3	40	21.3	36.5	10519	(N) PP6-B	15,17,19	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-18A	DAIKIN	RXYQ264AATJA	208V/3PH	3	50	25.8	47.8	13766.4	(N) PP6-A	1,3,5	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-19	DAIKIN	RXYQ264AATJA	208V/3PH	3	40	21.3	36.5	10519	(N) PP6-A	7,9,11	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-19A	DAIKIN	RXYQ264AATJA	208V/3PH	3	50	25.8	47.8	13766.4	(N) PP6-A	12,14,16	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-20	DAIKIN	RXYQ264AATJA	208V/3PH	3	40	21.3	36.5	10519	(N) PP1	21,23,25	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-20A	DAIKIN	RXYQ264AATJA	208V/3PH	3	50	25.8	47.8	13766.4	(N) PP6-A	6,8,10	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-21	DAIKIN	RXYQ264AATJA	208V/3PH	3	40	21.3	36.5	10519	(N) PP4	17,19,21	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-21A	DAIKIN	RXYQ264AATJA	208V/3PH	3	50	25.8	47.8	13766.4	(N) PP4	18,20,22	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-22	DAIKIN	RXYQ264AATJA	208V/3PH	3	40	21.3	36.5	10519	(N) PP3	6,8,10	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
ODU-22A	DAIKIN	RXYQ264AATJA	208V/3PH	3	50	25.8	47.8	13766.4	(N) PP3	9,11,13	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.

ELECTRICAL POWER - UNIT VENTILATOR SCHEDULE

	BASIS OF DESIGN		ELECTRICAL										
TAG	MANUFACTURER	MODEL	VOLT/HZ/PHASE	NUMBER OF POLES	MCA (A)	MOCP (A)	LOAD	PANEL	CIRCUIT NUMBER	CONNECTION TYPE	DISCONNECT	CONDUCTORS & CONDUIT	NOTES
UV-1	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP2	10,12	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-2	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP2	10,12	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-2A	DAIKIN APPLIED	UAVS9V07	208 V/60 Hz/1	2	4	15	832	(N) PP2	11,13	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-3	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP2	11,13	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-4	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP2	11,13	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-5	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP2	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-6	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP2	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-7	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP2	3,5	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-8	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP2	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-9A	DAIKIN APPLIED	UAVS9V07	208 V/60 Hz/1	2	4	15	832	(N) PP2	6,8	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-9B	DAIKIN APPLIED	UAVS9V07	208 V/60 Hz/1	2	4	15	832	(N) PP2	6,8	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-10	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP2	6,8	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-11	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP2	15,17	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-12	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP2	15,17	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-13	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP2	15,17	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-14	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP2	3,5	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-15	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP2	3,5	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-17	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP3	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-20	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP3	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-21	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP3	1,3	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-42	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP3	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-109	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP1	3,5	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-110	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP1	3,5	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-120	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	1,3	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-121	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-122	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	13,15	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-123	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-124	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	9,11	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-125A	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-125B	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	13,15	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-126A	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	9,11	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-126B	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	9,11	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-127	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	13,15	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-129	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	5,7	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-131A	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	5,7	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-131B	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	5,7	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-133	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	5,7	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-135A	DAIKIN APPLIED	UAVS9V07	208 V/60 Hz/1	2	4	15	832	(N) PP4	6,8	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-135B	DAIKIN APPLIED	UAVS9V07	208 V/60 Hz/1	2	4	15	832	(N) PP4	6,8	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-137	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	6,8	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-139	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	6,8	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-141	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP4	14,16	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-220	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	18,20	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-221	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	3,5	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-222	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	18,20	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-223	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	3,5	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-224	DAIKIN APPLIED	UAVS9V07	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	18,20	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-225	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	3,5	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-226	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	22,24	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-227	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	21,23	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-227A	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	17,19	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-228	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	22,24	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-229	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	18,20	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-229A	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	17,19	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-231	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	25,27	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-233	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	25,27	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-235A	DAIKIN APPLIED	UAVS9V07	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	25,27	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-235B	DAIKIN APPLIED	UAVS9V07	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	21,23	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-237	DAIKIN APPLIED	UAVS9V15	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	21,23	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT
UV-239	DAIKIN APPLIED	UAVS9V13	208 V/60 Hz/1	2	4	15	832	(N) PP5-A	22,24	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER IN RIGHT HAND COMPARTMENT

ELECTRICAL POWER - INDOOR AIR HANDLING UNITS

	BASIS OF DESIGN				ELECTRICAL													
TAG	MANUFACTURER	MODEL NUMBER	LOCATION	SERVES	VOLTAGE/PH	NUMBER OF POLES	VA	MOTOR HP	MOP	FLA	MCA	BHP	PANEL	CIRCUIT BREAKER	CONNECTION TYPE	DISCONNECT	CONDUCTORS & CONDUIT	NOTES
T-1	DAIKIN	BCHE0401	STAGE	PLAYROOM WEST AND STAGE	208V/3PH	3	7488	2 @ 4.42	35		26	1.27	(N) PP5-B	9,11,13	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	
T-2	DAIKIN	BCHE0301	STAGE	PLAYROOM EAST	208V/3PH	3	4147.2	4.42	25		14.4	0.96	(N) PP5-B	16,18,20	HARDWIRED	30AF/NF	(1 SET) 4#10+1#10G IN 3/4"C	
T-5	DAIKIN	CAH015GDCM	GYM	GYM	208V/3PH	3	3686.4	2 @ 2.1	15	11.4	12.8	2.8	(N) PP2	28,30,32	HARDWIRED	30AF/NF	(1 SET) 4#12+1#12G IN 3/4"C	
T-6	DAIKIN	CAH015GDCM	GYM	GYM	208V/3PH	3	3686.4	2 @ 2.1	15	11.4	12.8	2.8	(N) PP5-B	15,17,19	HARDWIRED	30AF/NF	(1 SET) 4#12+1#12G IN 3/4"C	

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY

525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

ELECTRICAL SYSTEM SCHEDULES

DRAWING NUMBER:

E631

11/6/2024 12:51:00 PM

ELECTRICAL POWER - VRF HEAT PUMP INDOOR UNIT SCHEDULE

	BASIS OF DESIGN			ELECTRICAL										
TAG	MANUFACTURER	MODEL NUMBER	SERVED BY	VOLTAGE/PHASE	NUMBER OF POLES	MCA	MOP	VA	Panel	Circuit Number	CONNECTION TYPE	DISCONNECT	CONDUCTORS & CONDUIT	NOTES
IDU-1.01	DAIKIN	FXAQ07PVJU	ODU-1	208V/1PH	2	0.4	15	66.56	(N) PP2	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-1.02	DAIKIN	FXAQ07PVJU	ODU-1	208V/1PH	2	0.4	15	66.56	(N) PP2	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-1.03	DAIKIN	FXAQ12PVJU	ODU-1	208V/1PH	2	0.4	15	66.56	(N) PP2	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-1.04	DAIKIN	FXAQ12PVJU	ODU-1	208V/1PH	2	0.4	15	66.56	(N) PP2	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-1.05	DAIKIN	FXAQ12PVJU	ODU-1	208V/1PH	2	0.4	15	66.56	(N) PP2	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-1.06	DAIKIN	FXAQ12PVJU	ODU-1	208V/1PH	2	0.4	15	66.56	(N) PP2	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-1.07	DAIKIN	FXZQ12TAVJU	ODU-1	208V/1PH	2	0.4	15	66.56	(N) PP2	14,16	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-1.08	DAIKIN	FXAQ07PVJU	ODU-1	208V/1PH	2	0.4	15	66.56	(N) PP2	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-2.01	DAIKIN	FTX12NMVJU	ODU-2	208V/1PH	2	0.4	15	66.56	(N) PP5-A	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-2.02	DAIKIN	FTX12NMVJU	ODU-2	208V/1PH	2	0.4	15	66.56	(N) PP5-A	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-2.03	DAIKIN	FTX12NMVJU	ODU-2	208V/1PH	2	0.4	15	66.56	(N) PP5-A	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-3.01-ALT	DAIKIN	FXZQ12TAVJU	ODU-3-ALT	208V/1PH	2	0.4	15	66.56	(N) PP2	14,16	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-3.02-ALT	DAIKIN	FXZQ12TAVJU	ODU-3-ALT	208V/1PH	2	0.4	15	66.56	(N) PP2	14,16	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-3.03-ALT	DAIKIN	FXZQ12TAVJU	ODU-3-ALT	208V/1PH	2	0.4	15	66.56	(N) PP3	1,3	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-3.04-ALT	DAIKIN	FXZQ12TAVJU	ODU-3-ALT	208V/1PH	2	0.4	15	66.56	(N) PP3	1,3	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-3.05-ALT	DAIKIN	FXZQ12TAVJU	ODU-3-ALT	208V/1PH	2	0.4	15	66.56	(N) PP2	14,16	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-4.01-ALT	DAIKIN	FXZQ12TAVJU	ODU-4-ALT	208V/1PH	2	0.4	15	66.56	(N) PP2	14,16	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-4.02-ALT	DAIKIN	FXZQ12TAVJU	ODU-4-ALT	208V/1PH	2	0.4	15	66.56	(N) PP2	14,16	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-4.03-ALT	DAIKIN	FXZQ12TAVJU	ODU-4-ALT	208V/1PH	2	0.4	15	66.56	(N) PP2	14,16	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-4.04-ALT	DAIKIN	FXZQ12TAVJU	ODU-4-ALT	208V/1PH	2	0.4	15	66.56	(N) PP3	1,3	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-5.01-ALT	DAIKIN	FXZQ12TAVJU	ODU-5-ALT	208V/1PH	2	0.4	15	66.56	(N) PP3	1,3	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-5.02-ALT	DAIKIN	FXZQ12TAVJU	ODU-5-ALT	208V/1PH	2	0.4	15	66.56	(N) PP3	1,3	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-5.03-ALT	DAIKIN	FXZQ12TAVJU	ODU-5-ALT	208V/1PH	2	0.4	15	66.56	(N) PP3	1,3	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-5.04-ALT	DAIKIN	FXZQ12TAVJU	ODU-5-ALT	208V/1PH	2	0.4	15	66.56	(N) PP3	1,3	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-6.01-ALT	DAIKIN	FXZQ12TAVJU	ODU-6-ALT	208V/1PH	2	0.4	15	66.56	(N) PP4	10,12	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-6.02-ALT	DAIKIN	FXZQ12TAVJU	ODU-6-ALT	208V/1PH	2	0.4	15	66.56	(N) PP4	10,12	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-6.03-ALT	DAIKIN	FXZQ12TAVJU	ODU-6-ALT	208V/1PH	2	0.4	15	66.56	(N) PP4	10,12	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-6.04-ALT	DAIKIN	FXZQ12TAVJU	ODU-6-ALT	208V/1PH	2	0.4	15	66.56	(N) PP4	10,12	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-6.05-ALT	DAIKIN	FXZQ12TAVJU	ODU-6-ALT	208V/1PH	2	0.4	15	66.56	(N) PP4	10,12	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-6.06-ALT	DAIKIN	FXZQ12TAVJU	ODU-6-ALT	208V/1PH	2	0.4	15	66.56	(N) PP4	10,12	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-7.01-ALT	DAIKIN	FXZQ12TAVJU	ODU-7-ALT	208V/1PH	2	0.4	15	66.56	(N) PP1	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-7.02-ALT	DAIKIN	FXZQ12TAVJU	ODU-7-ALT	208V/1PH	2	0.4	15	66.56	(N) PP1	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-7.03-ALT	DAIKIN	FXZQ12TAVJU	ODU-7-ALT	208V/1PH	2	0.4	15	66.56	(N) PP1	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-7.04-ALT	DAIKIN	FXZQ12TAVJU	ODU-7-ALT	208V/1PH	2	0.4	15	66.56	(N) PP1	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-7.05-ALT	DAIKIN	FXZQ12TAVJU	ODU-7-ALT	208V/1PH	2	0.4	15	66.56	(N) PP1	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-8.01-ALT	DAIKIN	FXZQ12TAVJU	ODU-8-ALT	208V/1PH	2	0.4	15	66.56	(N) PP5-A	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-8.02-ALT	DAIKIN	FXZQ12TAVJU	ODU-8-ALT	208V/1PH	2	0.4	15	66.56	(N) PP5-A	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-8.03-ALT	DAIKIN	FXZQ12TAVJU	ODU-8-ALT	208V/1PH	2	0.4	15	66.56	(N) PP5-A	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-8.04-ALT	DAIKIN	FXZQ12TAVJU	ODU-8-ALT	208V/1PH	2	0.4	15	66.56	(N) PP5-A	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-8.05-ALT	DAIKIN	FXZQ12TAVJU	ODU-8-ALT	208V/1PH	2	0.4	15	66.56	(N) PP5-A	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-8.06-ALT	DAIKIN	FXZQ12TAVJU	ODU-8-ALT	208V/1PH	2	0.4	15	66.56	(N) PP5-A	2,4	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-9.01	DAIKIN	FXAQ24PVJU	ODU-9	208V/1PH	2	0.4	15	66.56	(N) PP1	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-9.02	DAIKIN	FXAQ24PVJU	ODU-9	208V/1PH	2	0.4	15	66.56	(N) PP1	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-9.03	DAIKIN	FXAQ24PVJU	ODU-9	208V/1PH	2	0.4	15	66.56	(N) PP1	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-9.04	DAIKIN	FXAQ24PVJU	ODU-9	208V/1PH	2	0.4	15	66.56	(N) PP1	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-9.05	DAIKIN	FXAQ07PVJU	ODU-9	208V/1PH	2	0.4	15	66.56	(N) PP1	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-10.01	DAIKIN	FTK12B	ODU-10	208V/1PH	2	0.4	15	66.56	(N) PP1	7,9	HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	
IDU-11.01	DAIKIN	FXAQ12PVJU	ODU-1	208V/1PH	2	0.4	15	66.56			HARDWIRED	MOTOR RATED SWITCH	(1 SET) 3#12+1#12G IN 3/4"C	

ELECTRICAL POWER - ROOFTOP UNIT

	BASIS OF DESIGN				ELECTRICAL											
TAG	MANUFACTURER	MODEL NUMBER	LOCATION	SERVES	VOLTAGE/PH	NUMBER OF POLES	VA	MOP	FLA	MCA	BHP	PANEL	CIRCUIT BREAKER	CONNECTION TYPE	DISCONNECT	CONDUCTORS & CONDUIT	NOTES
RTU-H-1	DAIKIN	DPSC078	ROOF	12.0/21.7	208V/3PH	3	13775.76	110	64.9	75.4		MDP SEC.1	73,75,77	HARDWIRED	200AF/NF	(1 SET) 4#2+1#6G IN 1-1/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
RTU-H-2	DAIKIN	DPSC078	ROOF	12.0/21.7	208V/3PH	3	13775.76	110	64.9	75.4		MDP SEC.1	67,69,71	HARDWIRED	200AF/NF	(1 SET) 4#2+1#6G IN 1-1/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
RTU-H-3	DAIKIN	DPSC038	ROOF	14.1/20.28	208V/3PH	3	11725.28	50	30.8	35.5		(N) PP5-A	6,8,10	HARDWIRED	60AF/NF	(1 SET) 4#8+1#10G IN 3/4"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.
RTU-H-4	DAIKIN	DPSC108	ROOF	12.4/21.3	208V/3PH	3	20533.68	125	73.7	73.7		MDP SEC.1	68,70,72	HARDWIRED	200AF/NF	(1 SET) 4#1/0+1#6G IN 1-1/2"C	RIDGID GALVANIZED STEEL CONDUIT TO BE USED ON OUTDOOR WEATHER EXPOSED RUNS. PROVIDE NEMA 3R ENCLOSURE.

ELECTRICAL POWER - EXHAUST FAN SCHEDULE

	BASIS OF DESIGN			ELECTRICAL										
TAG	MANUFACTURER	MODEL NUMBER	SERVES	VOLTAGE/PHASE	Number of Poles	MOTOR HP	MOP	FLA	LOAD	Panel	Circuit Number	CONNECTION TYPE	DISCONNECT	CONDUCTORS & CONDUIT	NOTES
EF-18	GREENHECK	G-140-VG	PLAYROOM	115V/1PH	1	1/2	15	6.6	792		<unnamed>	HARDWIRED	30AF/NF	(1 SET) 2#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER
EF-19	GREENHECK	G-140-VG	PLAYROOM	115V/1PH	1	1/2	15	6.6	792		<unnamed>	HARDWIRED	30AF/NF	(1 SET) 2#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER
EF-21	GREENHECK	GB-300-314OXQDDRI	GYM	115V/1PH	1	1/2	20	9.8	792		<unnamed>	HARDWIRED	30AF/NF	(1 SET) 2#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER
EF-22	GREENHECK	GB-300-314OXQDDRI	GYM	115V/1PH	1	1/2	20	9.8	792		<unnamed>	HARDWIRED	30AF/NF	(1 SET) 2#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER
EF-33	GREENHECK	GB-300-15140X3QD-DR1	KITCHEN	208V/1PH	2	1.0	15	8.8	1830.4	(N) PP6-B	7,9	HARDWIRED	30AF/NF	(1 SET) 3#12+1#12G IN 3/4"C	DISCONNECT SWITCH PROVIDED BY MANUFACTURER

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: ELECTRICAL SYSTEM SCHEDULES

DRAWING NUMBER: E632

11/6/2024 12:51:02 PM

COPPER FEEDER SCHEDULE				
CONDUCTOR AND NEUTRAL SIZE	EGC SIZE	GEC SIZE	CONDUIT(S)*	310.15(B)16)75C
12	#12	-	.5"C	20A
10	#10	-	.5"C	30A
8	#10	-	.75"C	50A
6	#8	-	1.0"C	65A
4	#8	-	1.25"C	85A
3	#8	#8	1.25"C	100A
2	#6	#8	1.25"C	115A
1	#6	#6	1.5"C	130A
1/0	#6	#6	2"C	150A
2/0	#6	#4	2"C	175A
3/0	#6	#4	2"C	200A
4/0	#4	#2	2.5"C	230A
250	#4	#2	2.5"C	255A
300	#4	#2	3"C	285A
350	#3	#2	3"C	310A
400	#3	#1/0	3"C	335A
500	#3	#1/0	3.5"C	380A
600	#2	#1/0	4"C	420A
(2) SETS 250	#1	#1/0	(2)2.5"C	510A
(2) SETS 300	#1	#1/0	(2)3"C	570A
(2) SETS 350	#1/0	#2/0	(2)3"C	620A
(2) SETS 400	#1/0	#2/0	(2)3"C	670A
(2) SETS 500	#1/0	#2/0	(2)3.5"C	760A
(2) SETS 600	#1/0	#2/0	4"C	840A
(4) SETS 350	#3	#2	(4)3"C	1240A
(8) SETS 500	#1/0	#2/0	(8)4"C	3000A

*BASED ON TABLE C8 - RMC WITH 5 THHN CONDUCTORS

LEGEND: 12-4 = #12, 4WIRES
(2) 350-4 = 2 SETS 350, 4 WIRE PER SET

GENERAL NOTES:

A. REFER TO SHEET E-631 FOR MECHANCAIL EQUIPMENT FEEDER INFORMATION.
B. TRANSFORMER REPLACEMENT IS REQUIRED FOR NEW SYSTEM OPERATION. THIS WORK IS NIC. UNITS ACCU T-5 AND ACCU-T-6 SHALL BE LOCKED OUT/TAGGED OUT (LOTO) UNTIL TRANSFORMER INSTALLATION.

KEYED NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EXISTING SWITCHBOARD MANUFACTURER AND PROVIDE NEW CIRCUIT BREAKER SHOWN IN AVAILABLE SPACE OF SWITCH BOARD SECTION FOR NEW ACCU UNIT.

2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EXISTING SWITCHBOARD MANUFACTURER AND PROVIDE NEW CIRCUIT BREAKER SHOWN IN AVAILABLE SPACE OF SWITCH BOARD SECTION.

1 E700 ELECTRICAL SINGLE LINE
1/8" = 1'-0"

11/6/2024 12:51:06 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

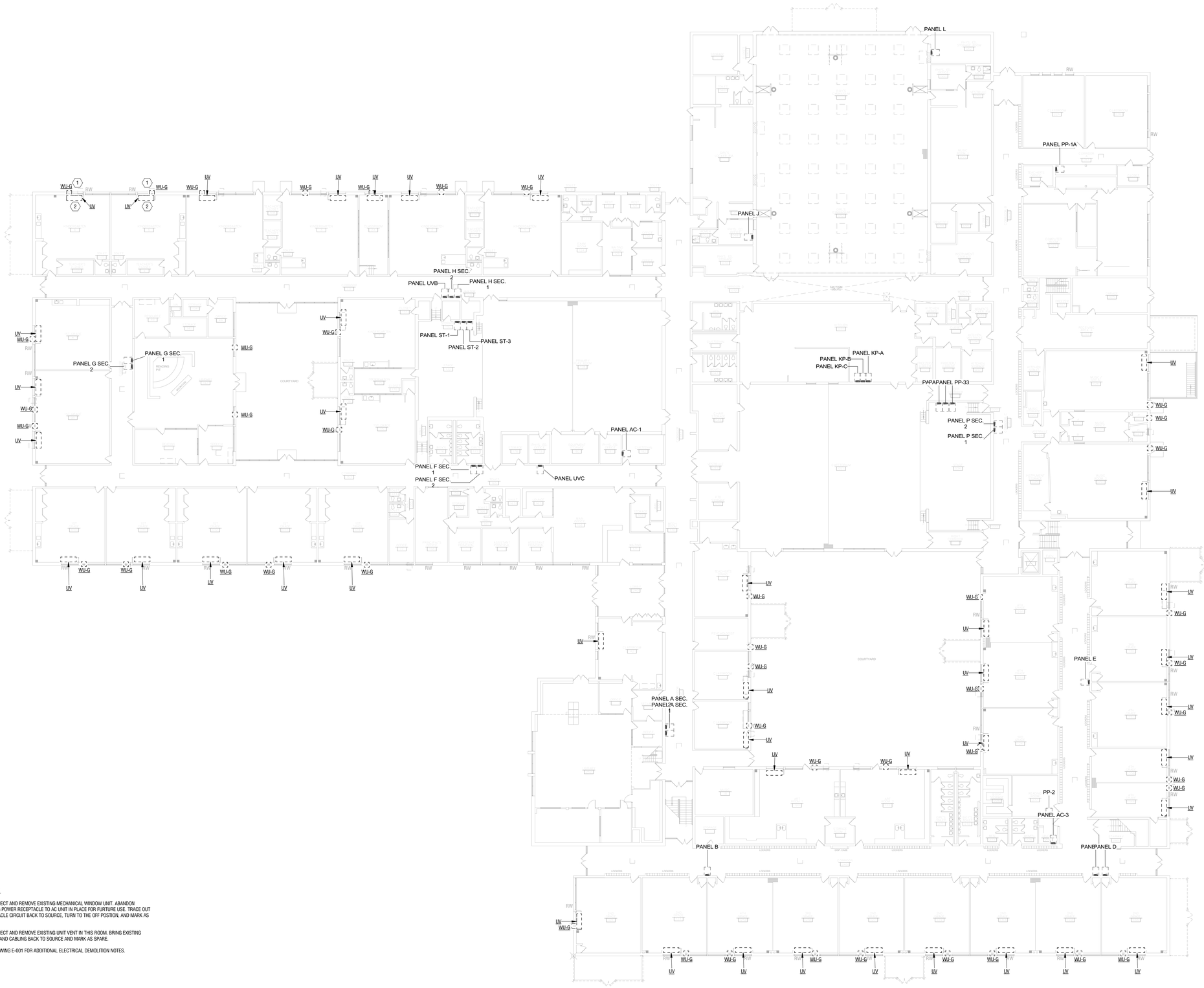
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015
PROJECT NUMBER: 2233600
DRAWN BY: AL
REVIEWED BY: MS
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: ELECTRICAL ONE-LINE DIAGRAM
DRAWING NUMBER: E700



KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING MECHANICAL WINDOW UNIT. ABANDON EXISITNG POWER RECEPTACLE TO AC UNIT IN PLACE FOR FURTURE USE. TRACE OUT RECEPTACLE CIRCUIT BACK TO SOURCE, TURN TO THE OFF POSTION, AND MARK AS SPARE.
2. DISCONNECT AND REMOVE EXISTING UNIT VENT IN THIS ROOM. BRING EXISTING CIRCUIT AND CABLING BACK TO SOURCE AND MARK AS SPARE.
3. SEE DRAWING E-001 FOR ADDITIONAL ELECTRICAL DEMOLITION NOTES.

1 / ED101 FIRST FLOOR ELECTRICAL DEMOLITION PLAN

1/16" = 1'-0"

11/6/2024 12:56:48 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME: FIRST FLOOR ELECTRICAL DEMOLITION PLAN

DRAWING NUMBER: ED101

KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING MECHANICAL WINDOW UNIT. ABANDON EXISITNG POWER RECEPTACLE TO AC UNIT IN PLACE FOR FURTURE USE. TRACE OUT RECEPTACLE CIRCUIT BACK TO SOURCE. TURN TO THE OFF POSITION, AND MARK AS SPARE.
2. DISCONNECT AND REMOVE EXISTING UNIT VENT IN THIS ROOM. BRING EXISTING CIRCUIT AND CABLING BACK TO SOURCE AND MARK AS SPARE.
3. SEE DRAWING E-001 FOR ADDITIONAL ELECTRICAL DEMOLITION NOTES.

1 / ED102 SECOND FLOOR ELECTRICAL DMEOLITION PLAN

1/8" = 1'-0"

11/6/2024 12:56:49 PM

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

DRAWING NAME:

SECOND FLOOR ELECTRICAL DEMOLITION PLAN

DRAWING NUMBER:

ED102

KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING ROOF TOP MOUNTED MECHANICAL EQUIPMENT AS NOTED. ELECTRICAL CONTRACTOR SHALL SAFE-OFF AND STORE EXISTING CIRCUIT IN NEW JUNCTION BOX FOR FURUTRE USE AND RECONNECTION. SEE DRAWING E103 FOR MORE INFORMATION.

1 ED103 ROOF ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

LaBella
Powered by partnership.

4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND ST. - NEWBURGH, NY 12550

NEWBURGH
ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600

DRAWN BY: AL

REVIEWED BY: MS

ISSUED FOR: BID

DATE: 11/12/2024

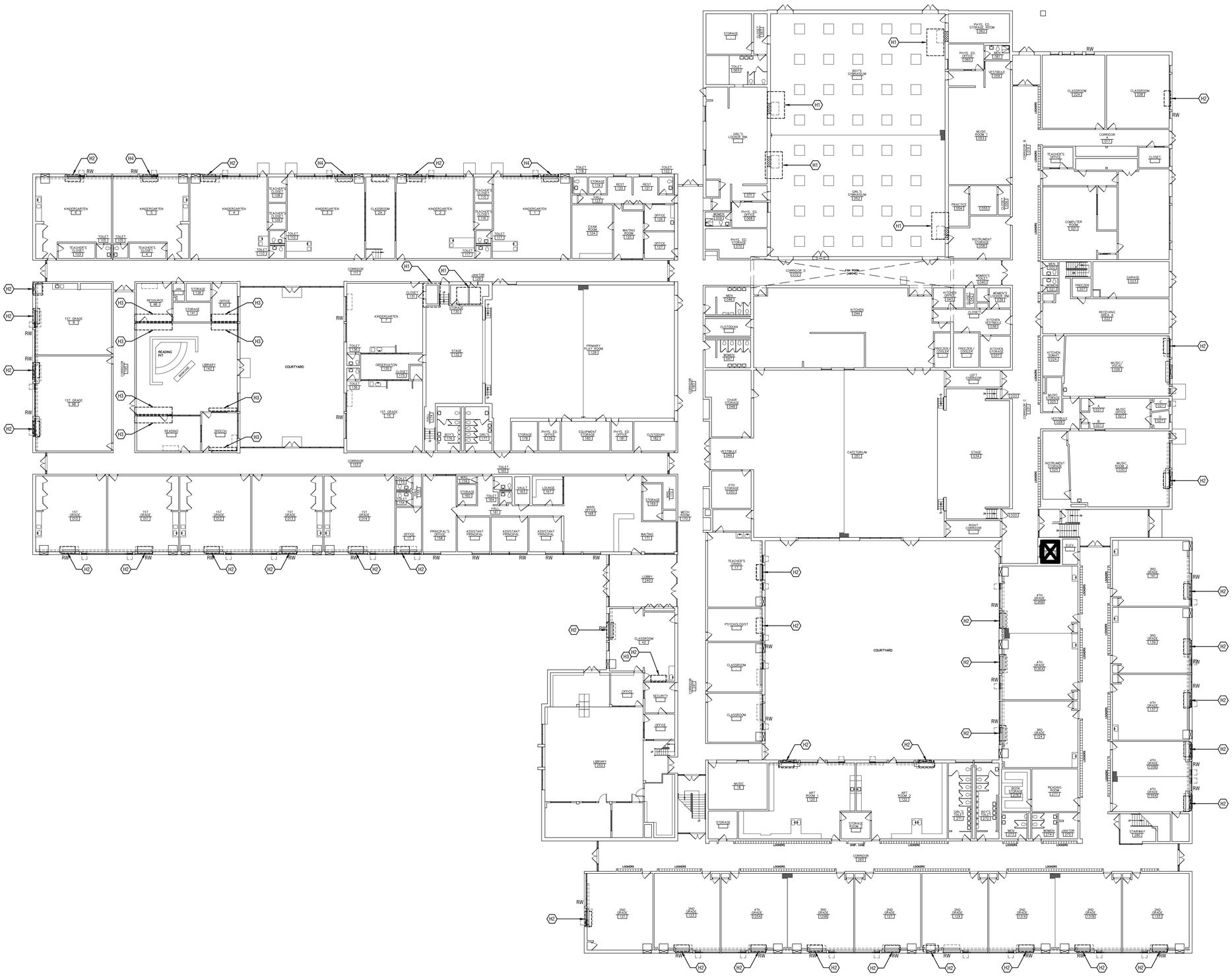
DRAWING NAME:

ROOF ELECTRICAL DEMOLITION PLAN

DRAWING NUMBER:

ED103

11/6/2024 12:50:50 PM



ASBESTOS GENERAL NOTES:

1. ALL ASBESTOS ABATEMENT WORK TO BE DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH CODE RULE 56 OF NEW YORK STATE RULES AND REGULATIONS, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
2. IN LIEU OF THE ABOVE REFERENCED REQUIREMENTS, THE CONTRACTOR MAY APPLY FOR A SITE-SPECIFIC VARIANCE. TO UTILIZE A SITE-SPECIFIC VARIANCE THE CONTRACTOR SHALL MEET ALL CONDITIONS OF THE VARIANCE, AS STATED BY THE NYS DEPARTMENT OF LABOR. ALL COSTS ASSOCIATED WITH THE APPLICATION OF SITE-SPECIFIC VARIANCES SHALL BE BORNE BY THE CONTRACTOR. ALL PROPOSED SITE-SPECIFIC VARIANCES SHALL BE REVIEWED BY THE CONSULTANT PRIOR TO SUBMITTAL TO THE NYSDOL.
3. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL, OR SUSPECT MATERIAL, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.
4. CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT BE LIABLE FOR THEFT OR DAMAGE.
5. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION. CONTRACTOR SHALL ENSURE THAT UNCERTIFIED PERSONNEL OR UNAUTHORIZED VISITORS DO NOT ENTER ACTIVE WORK AREAS AT ANY TIME.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY PROTECTION TO KEEP THE BUILDING IN A WATERTIGHT CONDITION AND TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES DURING THE DURATION OF THE PROJECT. REPAIR OR DAMAGE CAUSED AS A RESULT OF IMPROPER TEMPORARY PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT, AND WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
8. THE OWNER SHALL BE RESPONSIBLE FOR HIRING AND PAYING AN INDEPENDENT THIRD PARTY FIRM TO PERFORM ALL OF THE REQUIREMENTS OF MONITORING AS CALLED FOR IN CODE RULE 56.
9. MARKED AREAS DEPICTING WORK AREAS ARE APPROXIMATE ONLY. EXACT CUTOFF POINTS SHALL BE COORDINATED BY THE CONTRACTOR WITH OWNER'S REPRESENTATIVE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS AND ABATE MATERIALS SCHEDULED FOR REMOVAL.
11. ANY AND ALL ASSUMED ASBESTOS-CONTAINING MATERIALS SHALL BE ABATED AS ACM UNTIL TESTED OR PROVEN TO BE NEGATIVE OTHERWISE.
12. IF ADDITIONAL SUSPECT ACM IS DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER IMMEDIATELY.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CURRENT WASTE HANDLING, TRANSPORTATION AND DISPOSAL REGULATIONS FOR THE WORK. THE CONTRACTOR MUST DISPOSE OF ALL ASBESTOS MATERIALS REMOVED AND COMPLY FULLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
14. THE CONDITIONS SHOWN ON THIS DRAWING ARE BASED ON FIELD OBSERVATIONS AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. CONSEQUENCES OF FAILURE TO FIELD VERIFY CONDITIONS SHALL BE BORNE BY THE CONTRACTOR. MORE INFORMATION ON THE KNOWN ASBESTOS CONTAINING MATERIALS ASSOCIATED WITH THIS PROJECT CAN BE FOUND IN THE LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION REPORTS ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING WATER AND ELECTRICAL UTILITY CONNECTIONS REQUIRED OF ABATEMENT PROCEDURES. COORDINATE WITH BUILDING OWNER OR OWNER'S REPRESENTATIVE.

LEAD AWARENESS NOTES:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION: INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD. SEE SPECIFICATION SECTION 020810 - PROTECTION OF WORKERS - LEAD-CONTAINING MATERIALS FOR ADDITIONAL INFORMATION.

B. THE CONTRACTOR IS RESPONSIBLE FOR PROPER HANDLING AND DISPOSAL OF LEAD-CONTAINING WASTE.

C. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THEIR EMPLOYEES AND SUBCONTRACTORS OF THE PRESENCE AND LOCATIONS OF LEAD-CONTAINING MATERIALS, AND TO WARN THEIR EMPLOYEES AND SUBCONTRACTORS OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF LEAD-CONTAINING MATERIALS.

D. CONTRACTORS ARE HEREBY NOTIFIED THAT SOME LEAD-CONTAINING BUILDING MATERIALS HAVE BEEN IDENTIFIED AND MAY BE DISTURBED DURING COMPLETION OF THE WORK ON THIS PROJECT. INFORMATION ON LEAD-CONTAINING MATERIALS IS INCLUDED IN THE "LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION" REPORT ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.

ASBESTOS REMOVAL NOTES:

H1 REMOVE FROM THE AREAS INDICATED ASBESTOS-CONTAINING MUDDED JOINT PACKING IN ITS ENTIRETY. JOINT PACKING AND ASSOCIATED MATERIALS SHALL BE DISPOSED OF AS AN ACM. SEE MECHANICAL DRAWINGS FOR EXACT REMOVAL LIMITS.

H2 REMOVE FROM THE AREAS INDICATED ALL FLOORING, INCLUDING ASBESTOS-CONTAINING FLOOR TILES AND FLOOR MASTIC IN ITS ENTIRETY. FLOORING SHALL BE REMOVED DOWN TO SUBFLOOR. CONTRACTOR SHALL REMOVE ANY AND ALL FLOOR-MOUNTED FIXTURES WITHIN INDICATED AREA. FLOOR TILES, MASTIC, AND ASSOCIATED MATERIALS SHALL BE DISPOSED OF AS AN ACM.

H3 REMOVE FROM THE AREAS INDICATED ASBESTOS-CONTAINING BLOCK PAINT. CONTRACTOR SHALL MAKE ANY AND ALL PENETRATIONS THROUGH PAINTED CMU BLOCK AS NECESSARY FOR DEMOLITION OF EXISTING FIXTURES OR INSTALLATION OF NEW FIXTURES. REFER TO MECHANICAL DRAWINGS FOR EXACT PENETRATION LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT REMOVAL LIMITATIONS.

1 H101 1ST FLOOR HAZARDOUS MATERIAL REMOVAL PLAN
1/16" = 1'-0"

12/19/2023 4:56:44 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600
DRAWN BY: CS
REVIEWED BY: JM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

FIRST FLOOR HAZARDOUS MATERIAL REMOVAL PLAN

DRAWING NUMBER:

H101

ASBESTOS GENERAL NOTES:

1. ALL ASBESTOS ABATEMENT WORK TO BE DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH CODE RULE 56 OF NEW YORK STATE RULES AND REGULATIONS, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
2. IN LIEU OF THE ABOVE REFERENCED REQUIREMENTS, THE CONTRACTOR MAY APPLY FOR A SITE-SPECIFIC VARIANCE. TO UTILIZE A SITE-SPECIFIC VARIANCE THE CONTRACTOR SHALL MEET ALL CONDITIONS OF THE VARIANCE, AS STATED BY THE NYS DEPARTMENT OF LABOR. ALL COSTS ASSOCIATED WITH THE APPLICATION OF SITE-SPECIFIC VARIANCES SHALL BE BORNE BY THE CONTRACTOR. ALL PROPOSED SITE-SPECIFIC VARIANCES SHALL BE REVIEWED BY THE CONSULTANT PRIOR TO SUBMITTAL TO THE NYSDOL.
3. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL, OR SUSPECT MATERIAL, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.
4. CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT BE LIABLE FOR THEFT OR DAMAGE.
5. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION. CONTRACTOR SHALL ENSURE THAT UNCERTIFIED PERSONNEL OR UNAUTHORIZED VISITORS DO NOT ENTER ACTIVE WORK AREAS AT ANY TIME.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY PROTECTION TO KEEP THE BUILDING IN A WATERTIGHT CONDITION AND TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES DURING THE DURATION OF THE PROJECT. REPAIR OR DAMAGE CAUSED AS A RESULT OF IMPROPER TEMPORARY PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT, AND WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
8. THE OWNER SHALL BE RESPONSIBLE FOR HIRING AND PAYING AN INDEPENDENT THIRD PARTY FIRM TO PERFORM ALL OF THE REQUIREMENTS OF MONITORING AS CALLED FOR IN CODE RULE 56.
9. MARKED AREAS DEPICTING WORK AREAS ARE APPROXIMATE ONLY. EXACT CUTOFF POINTS SHALL BE COORDINATED BY THE CONTRACTOR WITH OWNER'S REPRESENTATIVE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS AND ABATE MATERIALS SCHEDULED FOR REMOVAL.
11. ANY AND ALL ASSUMED ASBESTOS-CONTAINING MATERIALS SHALL BE ABATED AS ACM UNTIL TESTED OR PROVEN TO BE NEGATIVE OTHERWISE.
12. IF ADDITIONAL SUSPECT ACM IS DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER IMMEDIATELY.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CURRENT WASTE HANDLING, TRANSPORTATION AND DISPOSAL REGULATIONS FOR THE WORK. THE CONTRACTOR MUST DISPOSE OF ALL ASBESTOS MATERIALS REMOVED AND COMPLY FULLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
14. THE CONDITIONS SHOWN ON THIS DRAWING ARE BASED ON FIELD OBSERVATIONS AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. CONSEQUENCES OF FAILURE TO FIELD VERIFY CONDITIONS SHALL BE BORNE BY THE CONTRACTOR. MORE INFORMATION ON THE KNOWN ASBESTOS CONTAINING MATERIALS ASSOCIATED WITH THIS PROJECT CAN BE FOUND IN THE LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION REPORTS ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING WATER AND ELECTRICAL UTILITY CONNECTIONS REQUIRED OF ABATEMENT PROCEDURES. COORDINATE WITH BUILDING OWNER OR OWNER'S REPRESENTATIVE.

LEAD AWARENESS NOTES:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION: INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD. SEE SPECIFICATION SECTION 020810 - PROTECTION OF WORKERS - LEAD-CONTAINING MATERIALS FOR ADDITIONAL INFORMATION.

B. THE CONTRACTOR IS RESPONSIBLE FOR PROPER HANDLING AND DISPOSAL OF LEAD-CONTAINING WASTE.

C. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THEIR EMPLOYEES AND SUBCONTRACTORS OF THE PRESENCE AND LOCATIONS OF LEAD-CONTAINING MATERIALS, AND TO WARN THEIR EMPLOYEES AND SUBCONTRACTORS OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF LEAD-CONTAINING MATERIALS.

D. CONTRACTORS ARE HEREBY NOTIFIED THAT SOME LEAD-CONTAINING BUILDING MATERIALS HAVE BEEN IDENTIFIED AND MAY BE DISTURBED DURING COMPLETION OF THE WORK ON THIS PROJECT. INFORMATION ON LEAD-CONTAINING MATERIALS IS INCLUDED IN THE "LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION" REPORT ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.

ASBESTOS REMOVAL NOTES:

H1 REMOVE FROM THE AREAS INDICATED ASBESTOS-CONTAINING MUDDED JOINT PACKING IN ITS ENTIRETY. JOINT PACKING AND ASSOCIATED MATERIALS SHALL BE DISPOSED OF AS AN ACM. SEE MECHANICAL DRAWINGS FOR EXACT REMOVAL LIMITS.

H2 REMOVE FROM THE AREAS INDICATED ALL FLOORING, INCLUDING ASBESTOS-CONTAINING FLOOR TILES AND FLOOR MASTIC IN ITS ENTIRETY. FLOORING SHALL BE REMOVED DOWN TO SUBFLOOR. CONTRACTOR SHALL REMOVE ANY AND ALL FLOOR-MOUNTED FIXTURES WITHIN INDICATED AREA. FLOOR TILES, MASTIC, AND ASSOCIATED MATERIALS SHALL BE DISPOSED OF AS AN ACM.

1 H102 2ND FLOOR HAZARDOUS MATERIAL REMOVAL PLAN
1/16" = 1'-0"

12/19/2023 4:56:44 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017876
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

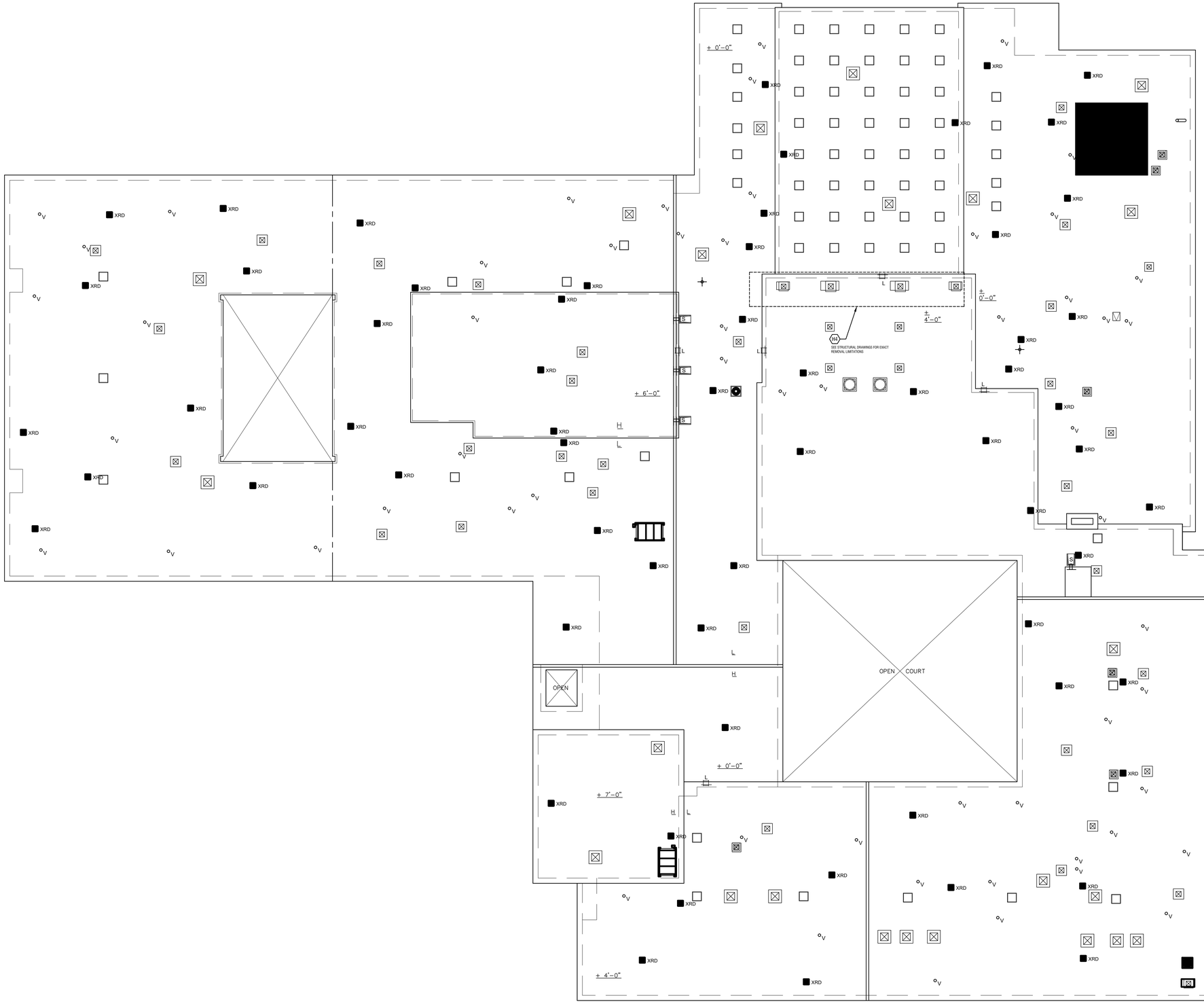
SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600
DRAWN BY: CS
REVIEWED BY: JM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME:

SECOND FLOOR HAZARDOUS MATERIAL REMOVAL PLAN

DRAWING NUMBER:

H102



ASBESTOS GENERAL NOTES:

1. ALL ASBESTOS ABATEMENT WORK TO BE DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH CODE RULE 56 OF NEW YORK STATE RULES AND REGULATIONS, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
2. IN LIEU OF THE ABOVE REFERENCED REQUIREMENTS, THE CONTRACTOR MAY APPLY FOR A SITE-SPECIFIC VARIANCE. TO UTILIZE A SITE-SPECIFIC VARIANCE THE CONTRACTOR SHALL MEET ALL CONDITIONS OF THE VARIANCE, AS STATED BY THE NYS DEPARTMENT OF LABOR. ALL COSTS ASSOCIATED WITH THE APPLICATION OF SITE-SPECIFIC VARIANCES SHALL BE BORNE BY THE CONTRACTOR. ALL PROPOSED SITE-SPECIFIC VARIANCES SHALL BE REVIEWED BY THE CONSULTANT PRIOR TO SUBMITTAL TO THE NYSDOL.
3. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL, OR SUSPECT MATERIAL, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.
4. CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT BE LIABLE FOR THEFT OR DAMAGE.
5. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION. CONTRACTOR SHALL ENSURE THAT UNCERTIFIED PERSONNEL OR UNAUTHORIZED VISITORS DO NOT ENTER ACTIVE WORK AREAS AT ANY TIME.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY PROTECTION TO KEEP THE BUILDING IN A WATERTIGHT CONDITION AND TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES DURING THE DURATION OF THE PROJECT. REPAIR OR DAMAGE CAUSED AS A RESULT OF IMPROPER TEMPORARY PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT, AND WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
8. THE OWNER SHALL BE RESPONSIBLE FOR HIRING AND PAYING AN INDEPENDENT THIRD PARTY FIRM TO PERFORM ALL OF THE REQUIREMENTS OF MONITORING AS CALLED FOR IN CODE RULE 56.
9. MARKED AREAS DEPICTING WORK AREAS ARE APPROXIMATE ONLY. EXACT CUTOFF POINTS SHALL BE COORDINATED BY THE CONTRACTOR WITH OWNER'S REPRESENTATIVE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS AND ABATE MATERIALS SCHEDULED FOR REMOVAL.
11. ANY AND ALL ASSUMED ASBESTOS-CONTAINING MATERIALS SHALL BE ABATED AS ACM UNTIL TESTED OR PROVEN TO BE NEGATIVE OTHERWISE.
12. IF ADDITIONAL SUSPECT ACM IS DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER IMMEDIATELY.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CURRENT WASTE HANDLING, TRANSPORTATION AND DISPOSAL REGULATIONS FOR THE WORK. THE CONTRACTOR MUST DISPOSE OF ALL ASBESTOS MATERIALS REMOVED AND COMPLY FULLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
14. THE CONDITIONS SHOWN ON THIS DRAWING ARE BASED ON FIELD OBSERVATIONS AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. CONSEQUENCES OF FAILURE TO FIELD VERIFY CONDITIONS SHALL BE BORNE BY THE CONTRACTOR. MORE INFORMATION ON THE KNOWN ASBESTOS CONTAINING MATERIALS ASSOCIATED WITH THIS PROJECT CAN BE FOUND IN THE LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION REPORTS ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING WATER AND ELECTRICAL UTILITY CONNECTIONS REQUIRED OF ABATEMENT PROCEDURES. COORDINATE WITH BUILDING OWNER OR OWNER'S REPRESENTATIVE.

LEAD AWARENESS NOTES:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION: INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD. SEE SPECIFICATION SECTION 020810 - PROTECTION OF WORKERS - LEAD-CONTAINING MATERIALS FOR ADDITIONAL INFORMATION.

B. THE CONTRACTOR IS RESPONSIBLE FOR PROPER HANDLING AND DISPOSAL OF LEAD-CONTAINING WASTE.

C. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THEIR EMPLOYEES AND SUBCONTRACTORS OF THE PRESENCE AND LOCATIONS OF LEAD-CONTAINING MATERIALS, AND TO WARN THEIR EMPLOYEES AND SUBCONTRACTORS OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF LEAD-CONTAINING MATERIALS.

D. CONTRACTORS ARE HEREBY NOTIFIED THAT SOME LEAD-CONTAINING BUILDING MATERIALS HAVE BEEN IDENTIFIED AND MAY BE DISTURBED DURING COMPLETION OF THE WORK ON THIS PROJECT. INFORMATION ON LEAD-CONTAINING MATERIALS IS INCLUDED IN THE "LIMITED PRE-RENOVATION REGULATED BUILDING MATERIALS INSPECTION" REPORT ATTACHED TO SECTION 003126 OF THE SPECIFICATIONS.

ASBESTOS REMOVAL NOTES:

HA REMOVE FROM THE AREAS INDICATED ASSUMED ASBESTOS-CONTAINING ROOFING MATERIALS DOWN TO ROOF DECK. CONTRACTOR SHALL MAKE ANY AND ALL PENETRATIONS THROUGH ROOFING MATERIALS AS NECESSARY FOR THE DEMOLITION OF EXISTING FIXTURES OR INSTALLATION OF NEW FIXTURES. REFER TO MECHANICAL DRAWINGS FOR EXACT PENETRATION LOCATIONS.

1 H103 ROOF HAZARDOUS MATERIAL REMOVAL PLAN
1/16" = 1'-0"

12/10/2023 4:56:44 PM

LaBella Powered by partnership.
4 British American Boulevard
Latham, NY 12110
(518) 273-0055
labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017876
GEOLOGICAL: 018750

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
124 GRAND STREET
NEWBURGH, NY 12550

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

TEMPLE HILL ACADEMY
525 UNION AVENUE
NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		

SED #: 44-16-00-01-0-036-015

PROJECT NUMBER: 2233600
DRAWN BY: CS
REVIEWED BY: JM
ISSUED FOR: BID
DATE: 11/12/2024
DRAWING NAME: ROOF HAZARDOUS MATERIAL REMOVAL PLAN
DRAWING NUMBER: H103