NEW KITCHEN AT
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NY 10543

SED #66-07-01-03-0-004-033

Architect / Engineer:

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44 St. John Street, NY 10924 (845) 360-5112

Symbols

GRADE LINE
BORDER LINE, OUTLINE
FIRE SEPARATION WALL
SMOKE COMPARTMENT
CENTER LINE
OBJECT LINE
ELEVATION LINE — EL. X'-X" / T.O. XXX
MATCH LINE
PROPOSED / EXISTING
HIDDEN LINE
DEMOLITION
BREAK LINE
BREAK LINE
BREAK LINE (PIPE)
FRAMING DESIGNATION — 2x10 F.J. @ 16" O.C.
DIMENSION LINE
COLUMN LINE — C1

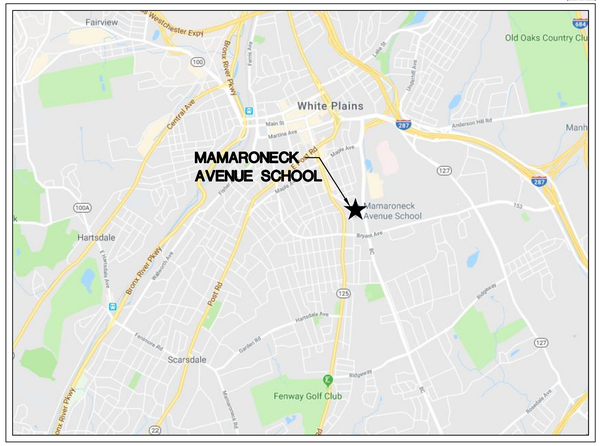
DOOR TAG — D01
WINDOW TAG — W1
CEILING TAG — CT-1
PLUMBING TAG — P-1
EQUIPMENT TAG — E11
WALL TAG — A
DEMOLITION NOTE — 1
CONSTRUCTION NOTE — 1
SLOPE DESIGNATIONS — 12" X, SL ½"/12
ADA SYMBOL

REVISION CLOUD W/ TAG — 1
ROOM NAME DESIGNATION — ROOM NAME / 100 / 100 SF
BLOW UP PLAN DESIGNATION — A-.--
INTERIOR ELEVATION — 2 A2.01 4 / 3
SECTION MARK — 1 / A2.01

Drawing Label — A-.-- / -" = 1'-0"

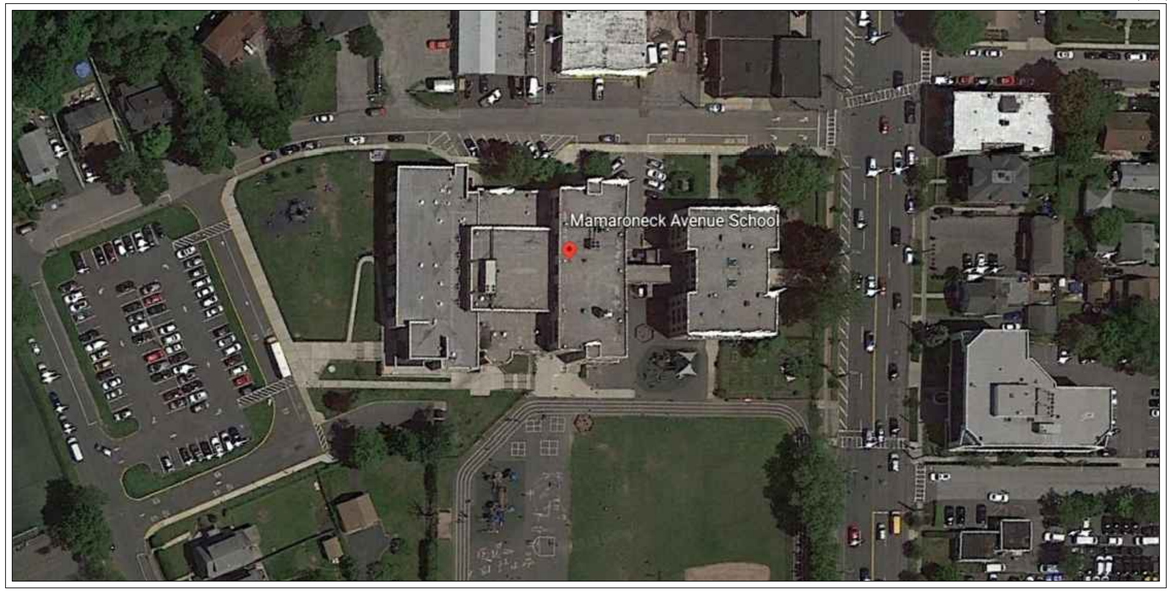
Location Map

NOT TO SCALE



Aerial View

NOT TO SCALE



General Notes

1. ALL WORK SHALL CONFORM TO THE 2020 BUILDING CODE OF NEW YORK STATE AND ALL OTHER APPLICABLE CODES, ORDINANCES, ETC. FOR NEW YORK STATE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH THE EXISTING CONDITIONS AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS AND COMMENCING WORK.
3. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND ADDRESS ALL QUESTIONS TO ARCHITECT PRIOR TO COMMENCING WORK.
4. THE CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS. ALL NOTES OR DIMENSIONED INFORMATION TAKES PRECEDENCE OVER THE DRAWING.
5. IN ALL CASES WHERE A CONFLICT MAY OCCUR SUCH AS BETWEEN ITEMS COVERED BY SPECIFICATIONS, NOTES ON THE DRAWINGS, OR BETWEEN GENERAL NOTES AND SPECIFIC DETAILS, THE ARCHITECT SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
6. DETAILS NOTED AS "TYPICAL" (TYP.) SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
7. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL AND SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION.
8. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFE WORKING CONDITIONS AND SHALL OBSERVE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND THE OWNER. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY. CARE SHALL BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR STRUCTURES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES AND JOB SITE CONDITIONS INCLUDING SAFETY. CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER TO PROTECT WORKMEN, OCCUPANTS AND THE PUBLIC TO BE PROTECTED FROM INJURY AND ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE BY USE OF SCAFFOLDING, UNDERPINNING OR OTHER APPROVED METHOD. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM HIS OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
10. THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN, DEBRIS FREE CONDITION. THE DUST RESULTING FROM REMOVALS SHALL BE CONTROLLED SO AS TO PREVENT ITS SPREAD TO OCCUPIED PORTIONS OF THE BUILDING AND TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING AREA.
11. CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM THEIR OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OFF SITE IN AN APPROVED MANNER UPON COMPLETION OF WORK. ANY EXTRA BUILDING MATERIALS SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AS DIRECTED. THE OWNER SHALL BE CONSULTED PRIOR TO DISPOSAL OF SALVAGED OR EXCESS MATERIALS AT PROJECT COMPLETION. THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
13. , ALL EXCESS MATERIAL, DEBRIS, ETC. SHALL BE REMOVED AND THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
14. CONTRACTOR SHALL COORDINATE SCHEDULING OF WORK WITH THE OWNER'S REQUIREMENTS AND SCHEDULE. CONSTRUCTION ACTIVITIES SHALL COMPLY WITH LOCAL NOISE ORDINANCES REQUIREMENTS.
15. CONTRACTOR SHALL FURNISH ALL EQUIPMENT THAT MAY BE REQUIRED TO PERFORM THE WORK INDICATED IN A SAFE AND ORDERLY MANNER.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND TEMPORARY SUPPORT OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF THEIR WORK AND TO ENSURE THE OWNER'S FACILITY TO BE OPERATIONAL. IF REQUIRED, THE CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO ALL UTILITIES AND PUBLIC FACILITIES INCLUDING FIRE HYDRANTS, FIRE ALARM BOXES, POLICE CALL BOXES, STREET LIGHTS, MANHOLES, AMONG OTHERS DURING DEMOLITION AND CONSTRUCTION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FILLING AND CLEANING UPON COMPLETION OF WORK.
18. THE CONTRACTOR SHALL SUBMIT WHERE REQUIRED, SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO THE START OF FABRICATION OR PURCHASE OF THOSE ITEMS.
19. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT WITH CERTIFICATES OF INSURANCE, AS SPELLED OUT IN THE SPECIFICATIONS, PRIOR TO STARTING THE WORK.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING OF EXISTING STRUCTURES AS NEEDED TO COMPLETE THE NEW WORK.
21. ALL MANUFACTURER'S MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH EACH MANUFACTURER'S SPECIFIC INSTRUCTIONS AND RECOMMENDATIONS. WHERE BRAND NAMES AND MANUFACTURED PRODUCTS ARE CALLED FOR, APPROVED EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE SUBSTITUTED WITH WRITTEN PERMISSION OF THE ARCHITECT AND THE OWNER. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE KIND AND EQUAL QUALITY.
22. ALL CHANGES SHALL BE REQUESTED IN WRITING AND MAY ONLY BE APPROVED IN WRITING BY THE ARCHITECT AND THE OWNER PRIOR TO ANY CHANGES BEING MADE.
23. THE ARCHITECT AND THE OWNER HAVE THE RIGHT TO REJECT ANY PORTION OF WORK THAT IS POORLY INSTALLED, DOES NOT MEET INDUSTRY STANDARD, UNAUTHORIZED OR WORK DONE CONTRARY TO THE THE INTENT OF THE CONTRACT DOCUMENTS. SUCH WORK SHALL BE REPLACED, REPAIRED OR REMOVED AT THE CONTRACTOR'S EXPENSE.
24. THE CONTRACTOR SHALL GUARANTEE ALL OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS FOR A PERIOD ONE YEAR AFTER RECEIVING FINAL ACCEPTANCE AND DO ALL REPAIR WORK AND REPLACEMENT AS NECESSARY DURING THAT PERIOD AT THE CONTRACTOR'S EXPENSE.
25. IN NO EVENT SHALL STRUCTURAL MEMBERS BE CUT OR DRILLED WITHOUT THE WRITTEN APPROVAL OF A LICENSED STRUCTURAL ENGINEER.
26. THE CONTRACTOR SHALL PROVIDE SAFE AND SANITARY CONDITIONS WHERE DEMOLITION AND WRECKING OPERATIONS ARE BEING CARRIED ON. WORK SHALL BE EXECUTED IN SUCH A MANNER THAT HAZARD FROM FIRE, POSSIBILITY OF INJURY, DANGER TO HEALTH AND CONDITIONS WHICH MAY CONSTITUTE A PUBLIC NUISANCE SHALL BE MINIMIZED.
27. THE ARCHITECT WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS AS WELL AS FAILURE TO OBTAIN AND/OR FOLLOW THE ARCHITECT'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.
28. COLOR, FINISHING & TEXTURE OF ALL FINISH MATERIALS, WHERE NOT INDICATED ON THE DRAWINGS, SHALL BE SELECTED BY OWNER.
29. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, AND NFPA 70.
30. CONTRACTORS OR ANY SUBCONTRACTORS PERFORMING WORK UNDER THIS CONTRACT SHALL CARRY LIABILITY AND PROPERTY DAMAGE INSURANCE AGAINST ACCIDENTS OF ALL KINDS AND SHALL FURNISH OWNER WITH CERTIFICATE OF INSURANCE.
31. ALL WORK IN THESE DRAWINGS SHALL BE CONSIDERED NEW WORK WHETHER STATED OR NOT EXCEPT WHERE SPECIFICALLY NOTED AS EXISTING.
32. WHERE SPECIFIC PRODUCTS OR MANUFACTURERS ARE INDICATED, IT IS TO BE UNDERSTOOD THAT THIS IS CONSIDERED THE BASIS OF DESIGN, AND "EQUALS" WILL BE APPROVED BY THE ARCHITECT OR ENGINEER UPON SATISFACTORY EVIDENCE THAT THE SUBSTITUTION MEETS OR EXCEEDS THE BASIS OF DESIGN.

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CA0.11	PROPOSED LOWER LEVEL EGRESS PLAN
CA0.12	PARTIAL FIRST FLOOR EGRESS PLAN
CA0.13	PARTIAL SECOND FLOOR EGRESS PLAN
CA0.14	PARTIAL THIRD FLOOR EGRESS PLAN
A1.01	EXISTING FLOOR PLAN & RCP W/ DEMO.
A2.01	PROPOSED KITCHEN FLOOR PLAN & RCP
A3.01	PARTIAL BUILDING ELEVATION
A8.01	SCHEDULES
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A6.03	DETAILS
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FS.1	FOOD SERVICE EQUIPMENT PLAN
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FS.4	FOOD SERVICE EXHAUST HOOD DATA
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FS.6	FOOD SERVICE SPECIAL CONDITIONS
FS.7	FOOD SERVICE REFRIGERATION DATA
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M2.01	PROPOSED KITCHEN & ROOF PLAN
M6.01	MECHANICAL DETAILS
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P5.01	KITCHEN PLUMBING RISERS & NOTES
P6.01	PLUMBING SCHEDULES, NOTES, AND DETAILS
E0.01	ELECTRICAL COVER SHEET
E1.01	DEMOLITION ELECTRICAL PLANS
E2.01	PROPOSED KITCHEN ELECTRICAL PLANS

Date	12/20/22
Checked	TT
Drawn	BP

MICHAEL J. McGOVERN, R.A.
The REGISTERED ARCHITECT License No. 022257-1

Revisions:

1 08/02/23 ISSUE FOR RE-BID

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. THESE DOCUMENTS REMAIN THE EXCLUSIVE PROPERTY OF THE ENGINEER, AND MAY NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

NYSED PROJECT # 66-07-01-03-0-004-033

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TITLE SHEET & GENERAL NOTES

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85
File No. 1092851001

T0.01

Code Analysis

Design Building Codes

2020 Existing Building Code of New York State
2020 Building Code of New York State
2020 Mechanical Code New York State
2020 Plumbing Code New York State
2020 Energy Conservation Code New York State
1998 NYSED Manual of Planning Standards
National Electric Code (NEC)
National Fire Protection Association (NFPA)
ICC/ANSI A117.1 - 2009 American National Standard

2020 Existing Building Code of New York State

Chapter 8 Alterations - Level 2

Section 801 General

801.1 Scope
Level 2 alterations as described in Section 504 shall comply with the requirements of this chapter.

801.2 Alteration Level 1 Compliance
In addition to the requirements of this chapter, all work shall comply with the requirements of Chapter 7.

802.4 Interior Finish

The interior finish of walls and ceilings in exits and corridors in any work area shall comply with the requirements of the Building Code of New York State.

Section 803 Fire Protection

804.1 Scope
The requirements of this section shall be limited to work areas in which Level 2 alterations are being performed, and where specified they shall apply throughout the floor on which the work areas are located or otherwise beyond the work area.

804.1.1 Corridor Ratings
Where an approved automatic sprinkler system is installed throughout the story, the required fire-resistance rating for any corridor located on the story shall be permitted to be reduced in accordance with the Building Code of New York State. In order to be considered for a corridor rating reduction, such system shall provide coverage for the stairway landings serving the floor and the intermediate landings immediately below.

804.2 Automatic Sprinkler Systems
Automatic sprinkler systems shall be provided in accordance with the requirements of Sections 803.2.1 through 803.2.4. Installation requirements shall be in accordance with the Building Code of New York State.

804.2.2 Groups A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 and S-2
In buildings with occupancies in Groups A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 and S-2, work areas that have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load greater than 30 shall be provided with automatic sprinkler protection where all of the following conditions occur:

1. The work area is required to be provided with automatic sprinkler protection in accordance with the Existing Building Code as applicable to new construction; and
2. The work area exceeds 50 percent of the floor area.

Exception: If the building does not have sufficient municipal water supply for design of a fire sprinkler system available to the floor without installation of a new fire pump, work areas shall be protected by an automatic smoke detection system throughout all occupiable spaces other than sleeping units or individual dwelling units that activates the occupant notification system in accordance with Sections 907.4, 907.5 and 907.6 of the Building Code.

(Note: The work area does not exceed 50% of the floor area.)

An approved fire alarm system shall be installed in accordance with Sections 803.4.1 through 803.4.3. Where automatic sprinkler protection is provided in accordance with Section 803.2 and is connected to the building fire alarm system, automatic heat detection shall not be required.

An approved automatic fire detection system shall be installed in accordance with the provisions of this code and NFPA 72. Devices, combinations of devices, appliances, and equipment shall be approved. The automatic fire detectors shall be smoke detectors, except that an approved alternative type of detector shall be installed in spaces such as boiler rooms, where products of combustion are present during normal operation in sufficient quantity to actuate a smoke detector.

803.4.1 Occupancy Requirements
A fire alarm system shall be installed in accordance with Sections 804.4.1.1 through 804.4.1.7. Existing alarm-notification appliances shall be automatically activated throughout the building. Where the building is not equipped with a fire alarm system, alarm-notification appliances within the work area shall be provided and automatically activated.

Exceptions:
1. Occupancies with an existing, previously approved fire alarm system.
2. Where selective notification is permitted, alarm-notification appliances shall be automatically activated in the areas selected.

804.4.1.1 Group E
A fire alarm system shall be installed in work areas of Group E occupancies as required by the Fire Code for existing Group E occupancies.

2020 Building Code of New York State

Chapter 3 Use and Occupancy Classification

Section 305 Educational Group E

Chapter 5 General Building Heights and Areas

Section 504 Building Height and Number of Stories

Table 504.3 allowable building height in feet above grade plane
(Note: see existing / proposed building information below)
Table 504.4 allowable number of stories above grade plane
(Note: see existing / proposed building information below)

Section 506 Building Area

Table 506.2 allowable area factor in square feet
(Note: see existing / proposed building information below)

Mamaroneck Avenue School (MAS) Building (1909) - Type of Construction: IIIB(SM)
Occupancy Classification: E
Allowable Building Height / Stories: 75', Three-story
Existing Building Height / Stories: 51'-1", Three-story, One Basement
(Note: no proposed modification to height / stories)

Allowable area per floor:	43,500 SF
Total allowable area:	130,500 SF
Lower Level (Basement):	7,415 SF (Existing)
1st Floor:	7,415 SF (Existing)
2nd Floor:	7,415 SF (Existing)
3rd Floor:	7,415 SF (Existing)
Total Area:	22,245 SF (Existing) (Note: Basement areas not included per 506.1.3)

Middle Building & Classroom Addition (1929, 2006, & 2021)
Type of Construction: IB (NS)
Occupancy Classification: E
Allowable Building Height / Stories Above Grade: 160', Five-story
Existing Building Height / Stories: 57'-1", Four-Story, One Basement

Allowable area per floor:	Unlimited
Total allowable area:	Unlimited
Basement	6,643 SF (Existing)
Lower Level	30,820 SF (Existing)
1st Floor:	30,820 SF (Existing)
2nd Floor:	15,328 SF (Existing)
3rd Floor	10,308 SF (Existing)
Total Area:	87,276 SF (Existing) (Note: Basement areas not included per 506.1.3)

Section 707 Fire Barriers

707.3.1 Shaft Enclosures
The fire-resistance rating of the fire barrier separating building areas from a shaft shall comply with Section 713.4.

707.3.4 Exit Passageway
The fire-resistance rating of the fire barrier separating building areas from an exit passageway shall comply with Section 1024.3.

707.3.5 Horizontal Exit
The fire-resistance rating of the separation between building areas connected by a horizontal exit shall comply with Section 1026.1.

707.3.10 Fire Areas
The fire barriers or horizontal assemblies, or both, separating a single occupancy into different fire areas shall have a fire-resistance rating of not less than that indicated in Table 707.3.10. The fire barriers or horizontal assemblies, or both, separating fire areas of mixed occupancies shall have a fire-resistance rating of not less than the highest value indicated in Table 707.3.10 for the occupancies under consideration.

Table 707.3.10 Fire-Resistance Rating Requirements for Fire Barrier Assemblies or Horizontal Assemblies Between Fire Areas
Occupancy Group: E
Fire Resistance Rating (hours): 2

707.5 Continuity
Fire barriers shall extend from the top of the foundation or floor/ceiling assembly below to the underside of the floor or roof sheathing, slab or deck above and shall be securely attached thereto. Such fire barriers shall be continuous through concealed space, such as the space above a suspended ceiling. Joints and voids at intersections shall comply with Sections 707.8 and 707.9

707.6 Openings
Openings in a fire barrier shall be protected in accordance with Section 716. Openings shall be limited to a maximum aggregate width of 25 percent of the length of the wall, and the maximum area of any single opening shall not exceed 156 square feet. Openings in enclosures for exit access stairways and ramps, interior exit stairways and ramps and exit passageways shall also comply with Sections 1019, 1023.4 and 1024.5, respectively.

Exceptions:
1. Openings shall not be limited to 156 square feet where adjoining floor areas are equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

707.7 Penetrations
Penetrations of fire barriers shall comply with Section 714.

707.7.1 Prohibited Penetrations
Penetrations into enclosures for exit access stairways and ramps, interior exit stairways and ramps, and exit passageways shall be allowed only where permitted by Sections 1019, 1023.5 and 1024.6, respectively.

707.8 Joints
Joints made in or between fire barriers, and joints made at the intersection of fire barriers with underside of a fire-resistance-rated floor or roof sheathing, slab or deck above, and the exterior vertical wall intersection shall comply with Section 715.

707.10 Ducts and Air Transfer Openings
Penetrations in a fire barrier by ducts and air transfer openings shall comply with Section 717.

Section 708 Fire Partitions

708.1 General
The following wall assemblies shall comply with this section.
3. Corridor walls as required by Section 1020.1.
4. Elevator lobby separation as required by Section 3006.2.

708.4 Continuity
Fire partitions shall extend from the top of the foundation or floor/ceiling assembly below and be securely attached to one of the following:

1. The underside of the floor or roof sheathing, deck or slab above.
2. The underside of a floor/ceiling or roof/ceiling assembly having a fire-resistance rating that is not less than the fire-resistance rating of the fire partition.

Exceptions:
1. Fire partitions shall not be required to extend into a crawl space below where the floor above the crawl space has a minimum 1-hour fire-resistance rating.
2. Fire partitions serving as a corridor wall shall not be required to extend above the lower membrane of a corridor ceiling provided that the corridor ceiling membrane is equivalent to corridor wall membrane, and either of the following conditions is met:
2.1 The room-side membrane of the corridor wall extends to the underside of the floor or roof sheathing, deck or slab of a fire-resistance-rated floor or roof above.
2.2 The building is equipped with an automatic sprinkler system installed throughout in accordance with Section 903.3.1.1 or 903.3.1.2, including automatic sprinklers installed in the space between the top of the fire partition and underside of the floor or roof sheathing, deck or slab above.
3. Fire partitions serving as a corridor wall shall be permitted to terminate at the upper membrane of the corridor ceiling assembly where the corridor ceiling is constructed as required for the corridor wall.
4. Fire partitions separating tenant spaces in a covered or open mall building complying with Section 402.4.2.1 shall not be required to extend above the underside of a ceiling. Such ceiling shall not be required to be part of a fire-resistance-rated assembly, and the attic or space above the ceiling at tenant separation walls shall not be required to be subdivided by fire partitions.

708.6 Openings
Openings in a fire partition shall be protected in accordance with Section 716.

708.7 Penetrations
Penetrations of fire partitions shall comply with Section 714.

708.8 Joints
Joints made in or between fire partitions shall comply with Section 715.

708.9 Ducts and Air Transfer Openings
Penetrations in a fire partition by ducts and air transfer openings shall comply with Section 717.

Section 716 Opening Protectives

Table 716.1.2 Opening Fire Protection Assemblies, Ratings and Markings

Type of Assembly:
Fire walls and fire barriers having a required fire-resistance rating > 1 hour
Required Wall Assembly Rating (hours): 3
Minimum Fire Door and Fire Shutter Assembly Rating (hours): 3
Door Vision Panel Size: ASTM E119 (maximum size tested)
Fire Rated Glazing Marking Door Vision Panel: D-H-W-180
Minimum Sidelight/Transom Assembly Rating (hours): Fire-resistance 3
Fire-Rated Glazing Marking Sidelight/Transom Panel: Fire-resistance W-180

Type of Assembly:
Fire walls and fire barriers having a required fire-resistance rating > 1 hour
Required Wall Assembly Rating (hours): 2
Minimum Fire Door and Fire Shutter Assembly Rating (hours): 1-1/2
Door Vision Panel Size: 100 sq. in.
Fire Rated Glazing Marking Door Vision Panel:
≤100 sq. in. = D-H-90; >100 sq. in.= D-H-W-90
Minimum Sidelight/Transom Assembly Rating (hours): Fire-resistance 2
Fire-Rated Glazing Marking Sidelight/Transom Panel: Fire-resistance W-120

Type of Assembly:
Enclosures for shafts, interior exit stairways and interior exit ramps.
Required Wall Assembly Rating (hours): 2
Minimum Fire Door and Fire Shutter Assembly Rating (hours): 1-1/2
Door Vision Panel Size: 100 sq. in.
Fire Rated Glazing Marking Door Vision Panel:
≤100 sq. in. = D-H-90; > 100 sq. in.= D-H-T-W-90
Minimum Sidelight/Transom Assembly Rating (hours): Fire-resistance 2
Fire-Rated Glazing Marking Sidelight/Transom Panel: Fire-resistance W-120

Type of Assembly:
Fire barriers having a required fire-resistance rating of 1 hour: Enclosures for shafts, exit access stairways, exit access ramps, interior exit stairways and interior exit ramps; and exit passageway walls
Required Wall Assembly Rating (hours): 1
Minimum Fire Door and Fire Shutter Assembly Rating (hours): 1
Door Vision Panel Size: 100 sq. in. (except with automatic sprinkler system)
Fire Rated Glazing Marking Door Vision Panel:
≤100 sq. in. = D-H-60; >100 sq. in.= D-H-T-W-60
Minimum Sidelight/Transom Assembly Rating (hours): Fire-resistance 1
Fire-Rated Glazing Marking Sidelight/Transom Panel: Fire-resistance W-60

Type of Assembly: Fire partitions: Corridor walls
Required Wall Assembly Rating (hours): 1
Minimum Fire Door and Fire Shutter Assembly Rating (hours): 1/3
Door Vision Panel Size: Maximum size tested
Fire Rated Glazing Marking Door Vision Panel: D-20
Minimum Sidelight/Transom Assembly Rating (hours):
Fire Protection 3/4 (or ASTM E119 maximum size tested)
Fire-Rated Glazing Marking Sidelight/Transom Panel: D-H-OH-45

716.5.8.2 Elevator, Stairway and Ramp Protectives
Approved fire-protection-rated glazing used in fire door assemblies in elevator, stairway and ramp enclosures shall be so located as to furnish clear vision of the passageway or approach to the elevator, stairway or ramp.

Chapter 8 Interior Finishes

801.2 Interior Wall and Ceiling Finish
The provisions of Section 803 shall limit the allowable fire performance and smoke development of interior wall and ceiling finish materials based on occupancy classification.

Section 803 Wall and Ceiling Finishes

Table 803.13 Interior Wall and Ceiling Finish Requirements by Occupancy

Group E (Sprinklered)	
Interior exit stairways and ramps and exit passageways:	B
Corridors and enclosure for exit access stairways and ramps:	C
Rooms and enclosed spaces:	C
Group E (Nonsprinklered)	
Interior exit stairways and ramps and exit passageways:	A
Corridors and enclosure for exit access stairways and ramps:	B
Rooms and enclosed spaces:	C

Section 805 Combustible Materials in Types I and II Construction

805.1.1 Subfloor Construction
Floor sleepers, bucks and nailing blocks shall not be constructed of combustible materials, unless the space between the fire-resistance rated floor assembly and the flooring is either solidly filled with noncombustible materials or fireblocked in accordance with Section 718, and provided that such open spaces shall not extend under or through permanent partitions or walls.

Chapter 10 Means of Egress

(Note: See Egress Plans for code analysis of this chapter.)

Chapter 33 Safeguards During Construction

Section 3302 Construction Safeguards

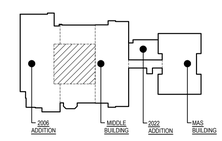
3302.1 Alterations, Repairs and Additions
Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure.

Exceptions:
1. Where such required elements or devices are being altered or repaired, adequate substitute provisions shall be made.
2. Maintenance of such elements and devices is not required when the existing building is not occupied.

3302.2 Manner of Removal
Waste materials shall be removed in a manner that prevents injury or damage to persons, adjoining properties and public rights-of-way.

3302.3 Fire Safety During Construction
Fire safety during construction shall comply with the applicable requirements of this code and the applicable provisions of Chapter 33 of the Fire Code.

MAMARONECK AVENUE SCHOOL



Key Plan
NOT TO SCALE
PROJECT NORTH

NYSED PROJECT # 66-07-01-03-0-004-033

Date	12/20/22
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Revisions:

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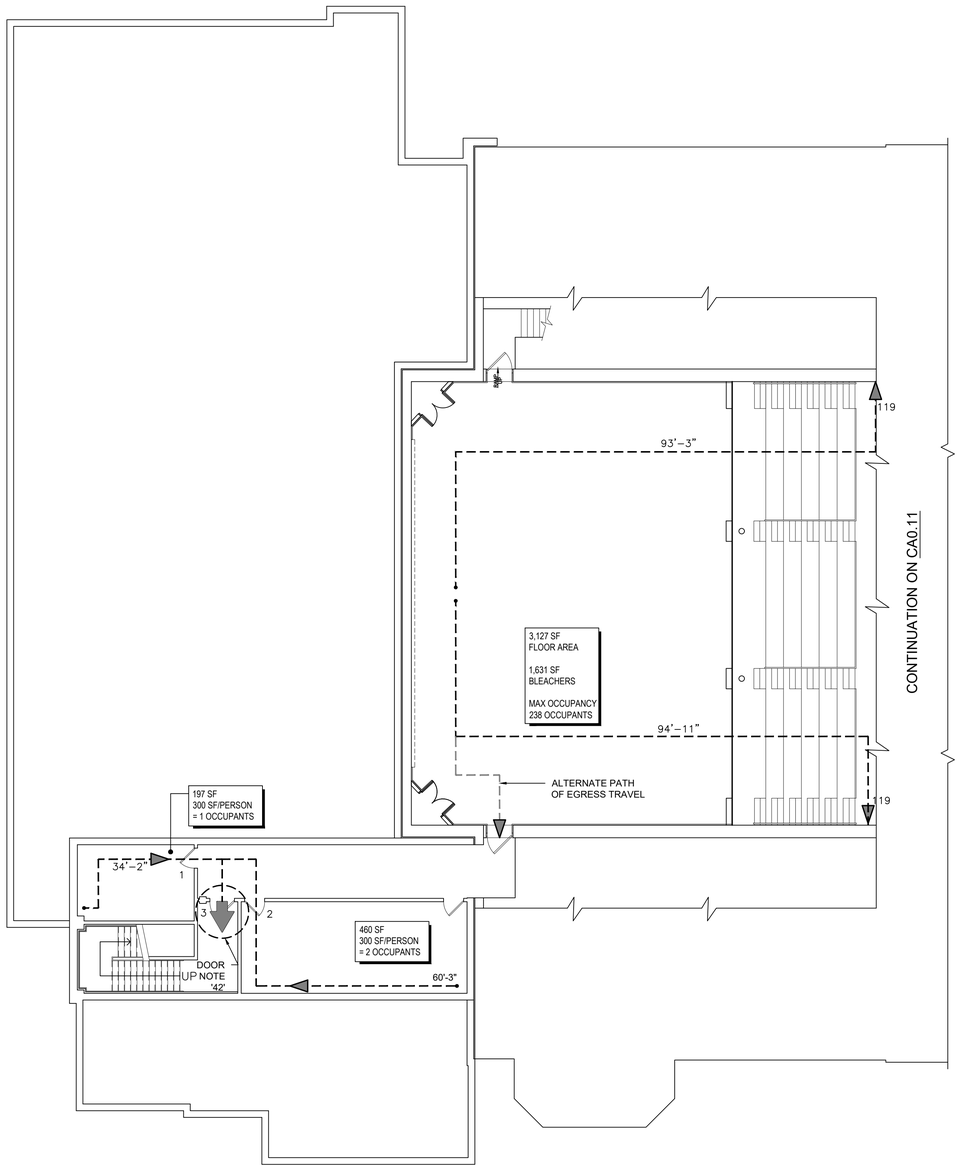
CODE ANALYSIS
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 1092850A001

CA0.01



Partial Basement Egress Plan

1 / CA0.10

3/32 = 1'-0"

NORTH

Plumbing Fixture Counts

TOTAL FIXTURES PROVIDED

CLASSIFICATION	WATER CLOSETS	URINALS	LAVATORIES	DRINKING FOUNTAINS
GIRLS	15 FIXTURES		11 FIXTURES	5 FIXTURES
BOYS	11 FIXTURES	9 FIXTURES	11 FIXTURES	

Symbol Legend

*ERW	EXISTING RESCUE WINDOW
	DENOTES ADA ACCESSIBLE ENTRANCE
	DENOTES EXISTING FIRE EXTINGUISHER CABINET
	DENOTES EXISTING FIRE HOSE REEL
	DENOTES NEW SEMI-RECESSED FIRE EXTINGUISHER CABINET
	AREA OF TEMPORARY OCCUPANCY

Egress Legend

SYMBOL	DESCRIPTION
0'-0" T.D. # #	TOTAL TRAVEL DISTANCE (T.D.), # OF OCCUPANTS # OCCUPANT CAPACITY OF OPENING
0'-0" C.P. #	COMMON PATH OF TRAVEL (C.P.), # OF OCCUPANTS
R.W.	RESCUE WINDOW

DOOR EGRESS NOTES

DOOR NOTE '34'
3'-0" SINGLE LEAF DOOR:
EGRESS CAPACITY
2'-10" CLEAR OPENING
34"/.20" = 170 PEOPLE
DOOR NOTE '42'
3'-8" SINGLE LEAF DOOR:
EGRESS CAPACITY
3'-6" CLEAR OPENING
42"/.20" = 210 PEOPLE
DOOR NOTE '56'
5'-0" DOUBLE LEAF DOOR:
EGRESS CAPACITY
4'-8" CLEAR OPENING
56"/.20" = 280 PEOPLE
DOOR NOTE '64'
5'-8" DOUBLE LEAF DOOR:
EGRESS CAPACITY
5'-6" CLEAR OPENING
64"/.20" = 320 PEOPLE
DOOR NOTE '66'
5'-10" DOUBLE LEAF DOOR:
EGRESS CAPACITY
5'-6" CLEAR OPENING
66"/.20" = 330 PEOPLE
DOOR NOTE '68'
6'-0" DOUBLE LEAF DOOR:
EGRESS CAPACITY
5'-8" CLEAR OPENING
68"/.20" = 340 PEOPLE
DOOR NOTE '80'
7'-0" DOUBLE LEAF DOOR:
EGRESS CAPACITY
6'-8" CLEAR OPENING
80"/.20" = 400 PEOPLE

HALL EGRESS NOTES

HALL NOTE '57'
4'-9" CLEAR OPENING
EGRESS CAPACITY
57"/.20" = 285 PEOPLE
HALL NOTE '86'
7'-2" CLEAR OPENING
EGRESS CAPACITY
86"/.20" = 430 PEOPLE
HALL NOTE '96'
8'-0" CLEAR OPENING
EGRESS CAPACITY
96"/.20" = 480 PEOPLE
HALL NOTE '97'
7'-11" CLEAR OPENING
EGRESS CAPACITY
95"/.20" = 475 PEOPLE
HALL NOTE '100'
8'-4" CLEAR OPENING
EGRESS CAPACITY
100"/.20" = 500 PEOPLE
HALL NOTE '104'
8'-8" CLEAR OPENING
EGRESS CAPACITY
104"/.20" = 520 PEOPLE
HALL NOTE '108'
9'-0" CLEAR OPENING
EGRESS CAPACITY
108"/.20" = 540 PEOPLE
HALL NOTE '114'
9'-6" CLEAR OPENING
EGRESS CAPACITY
114"/.20" = 570 PEOPLE
HALL NOTE '117'
9'-9" CLEAR OPENING
EGRESS CAPACITY
117"/.20" = 585 PEOPLE
HALL NOTE '120'
10'-0" CLEAR OPENING
EGRESS CAPACITY
120"/.20" = 600 PEOPLE
HALL NOTE '121'
10'-1" CLEAR OPENING
EGRESS CAPACITY
121"/.20" = 605 PEOPLE
HALL NOTE '123'
10'-3" CLEAR OPENING
EGRESS CAPACITY
123"/.20" = 615 PEOPLE
HALL NOTE '133'
11'-1" CLEAR OPENING
EGRESS CAPACITY
133"/.20" = 665 PEOPLE
HALL NOTE '138'
11'-6" CLEAR OPENING
EGRESS CAPACITY
138"/.20" = 690 PEOPLE
HALL NOTE '139'
11'-7" CLEAR OPENING
EGRESS CAPACITY
139"/.20" = 695 PEOPLE
HALL NOTE '142'
11'-10" CLEAR OPENING
EGRESS CAPACITY
142"/.20" = 710 PEOPLE
HALL NOTE '143'
11'-11" CLEAR OPENING
EGRESS CAPACITY
143"/.20" = 715 PEOPLE

STAIR EGRESS NOTES

STAIR NOTE '40'
3'-4" CLEAR OPENING
EGRESS CAPACITY
40"/.30" = 133 PEOPLE
STAIR NOTE '41'
3'-5" CLEAR OPENING
EGRESS CAPACITY
41"/.30" = 136 PEOPLE
STAIR NOTE '46'
3'-10" CLEAR OPENING
EGRESS CAPACITY
46"/.30" = 153 PEOPLE
STAIR NOTE '48'
4'-0" CLEAR OPENING
EGRESS CAPACITY
48"/.30" = 160 PEOPLE
STAIR NOTE '50'
4'-2" CLEAR OPENING
EGRESS CAPACITY
50"/.30" = 166 PEOPLE
STAIR NOTE '51'
4'-3" CLEAR OPENING
EGRESS CAPACITY
51"/.30" = 170 PEOPLE
STAIR NOTE '56'
4'-8" CLEAR OPENING
EGRESS CAPACITY
56"/.30" = 186 PEOPLE
ASTAIR NOTE '60'
5'-0" CLEAR OPENING
EGRESS CAPACITY
60"/.30" = 200 PEOPLE
STAIR NOTE '72'
6'-0" CLEAR OPENING
EGRESS CAPACITY
72"/.30" = 240 PEOPLE
STAIR NOTE '90'
7'-6" CLEAR OPENING
EGRESS CAPACITY
90"/.30" = 300 PEOPLE
STAIR NOTE '98'
8'-2" CLEAR OPENING
EGRESS CAPACITY
98"/.30" = 326 PEOPLE

Egress Code Analysis

PER THE 2020 BUILDING CODE OF NEW YORK STATE U.N.O.

USE GROUP CLASSIFICATION "E": EDUCATIONAL

OCCUPANT LOAD
SECTION 1004.1.2 - AREAS WITHOUT FIXED SEATING
OCCUPANCY LOADS WERE CALCULATED USING THE MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT AS INDICATED IN TABLE 1004.5.

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

STORAGE & MECHANICAL ROOMS	300	GROSS
ASSEMBLY:		
ASSEMBLY WITH FIXED SEATS	SECTION 1004.6	
CONCENTRATED (CHAIRS ONLY)	7	NET
STANDING SPACE	5	NET
UNCONCENTRATED (TABLES & CHAIRS)	15	NET
BUSINESS AREAS (OFFICES)	150	GROSS
EDUCATIONAL:		
CLASSROOMS	20	NET
SHOPS OR VOCATIONAL ROOMS	50	NET
EXERCISE ROOMS	50	GROSS
KITCHENS, COMMERCIAL	200	GROSS
LIBRARY		
READING ROOM	50	NET
STACKS	100	GROSS
LOCKER ROOMS	50	GROSS
STAGES AND PLATFORMS	15	NET

SECTION 1004.4 - FIXED SEATING
FOR AREAS HAVING FIXED SEATS AND AISLES, THE OCCUPANT LOAD SHALL BE DETERMINED BY THE NUMBER OF FIXED SEATS INSTALLED THEREIN.

MEANS OF EGRESS SIZING
SECTION 1005
1005.3 REQUIRED CAPACITY BASED ON OCCUPANT LOAD
1005.3.1 STAIRWAYS
CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAYS BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH PER OCCUPANT.

1005.3.2 OTHER EGRESS COMPONENTS
MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY EACH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT.

NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
SECTION 1006
1006.2.1 TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1. THE CUMULATIVE OCCUPANT LOAD FROM ADJACENT ROOMS, AREAS OR SPACES SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1004.2.

"E" OCCUPANCY:
49 MAX OCCUPANT LOAD
75' MAX COMMON PATH OF EGRESS TRAVEL DISTANCE

EXIT ACCESS
SECTION 1016
1016.2 EGRESS THROUGH INTERVENING SPACE
EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS AND THE AREA SERVED ARE ACCESSORY TO ONE OR THE OTHER.

EGRESS SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, CLOSETS OR SPACES USED FOR SIMILAR PURPOSES.

EXIT ACCESS TRAVEL DISTANCE
SECTION 1017
"E" OCCUPANCY:
NOT TO EXCEED 200 FEET WITHOUT SPRINKLER SYSTEM

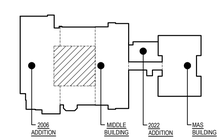
CORRIDORS
SECTION 1020
1020.1 CORRIDOR FIRE-RESISTANCE RATING:
"E" OCCUPANCY
1 HOUR WITHOUT A SPRINKLER SYSTEM

1020.2 MINIMUM CORRIDOR WIDTH
MINIMUM CORRIDOR WIDTH UNLESS OTHERWISE NOTED: 44"
WITH AN OCCUPANT LOAD OF LESS THAN 50: 36"
GROUP "E" WITH A CORRIDOR SERVING MORE THAN 100: 72"

1020.4 DEAD END CORRIDORS
MAX DEAD END CORRIDOR LENGTH = 20'

PER THE 2020 EXISTING BUILDING CODE OF NEW YORK STATE
805.6 DEAD END CORRIDORS (ALTERATIONS - LEVEL 2)
MAX DEAD END CORRIDOR LENGTH = 35'

MAMARONECK AVENUE SCHOOL



Key Plan

NOT TO SCALE

PROJECT NORTH

NYSED PROJECT # 66-07-01-03-0-004-033

Date	12/20/22
Checked	TT
Drawn	BP

MICHAEL J. McGOVERN, R.A.
The REGISTERED ARCHITECT
License No. 022257-1

Revisions:
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PARTIAL BASEMENT EGRESS PLAN

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 1092850A010

CA0.10

1 CA0.11 **Partial Lower Level Egress Plan**

3/32" = 1'-0"

NORTH

Date	12/20/22
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NYSED PROJECT # 66-07-01-03-0-004-033

PROPOSED LOWER LEVEL EGRESS PLAN

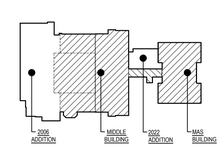
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 109285CA010

CA0.11

MAMARONECK AVENUE SCHOOL



Key Plan

NOT TO SCALE

PROJECT NORTH

1 CA0.12 Partial First Floor Egress Plan

3/32" = 1'-0"

NORTH

MAMARONECK AVENUE SCHOOL

Key Plan

NOT TO SCALE

PROJECT NORTH

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PARTIAL FIRST FLOOR EGRESS PLAN

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 109285CA010

CA0.12

1 CA0.13 Partial Second Floor Egress Plan

3/32" = 1'-0"

NORTH

MAMARONECK AVENUE SCHOOL

Key Plan

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PROJECT NORTH

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PARTIAL SECOND FLOOR EGRESS PLAN

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 109285CA010

CA0.13

1 CA0.14 Partial Third Floor Egress Plan

3/32" = 1'-0"

NORTH

MAMARONECK AVENUE SCHOOL

Key Plan

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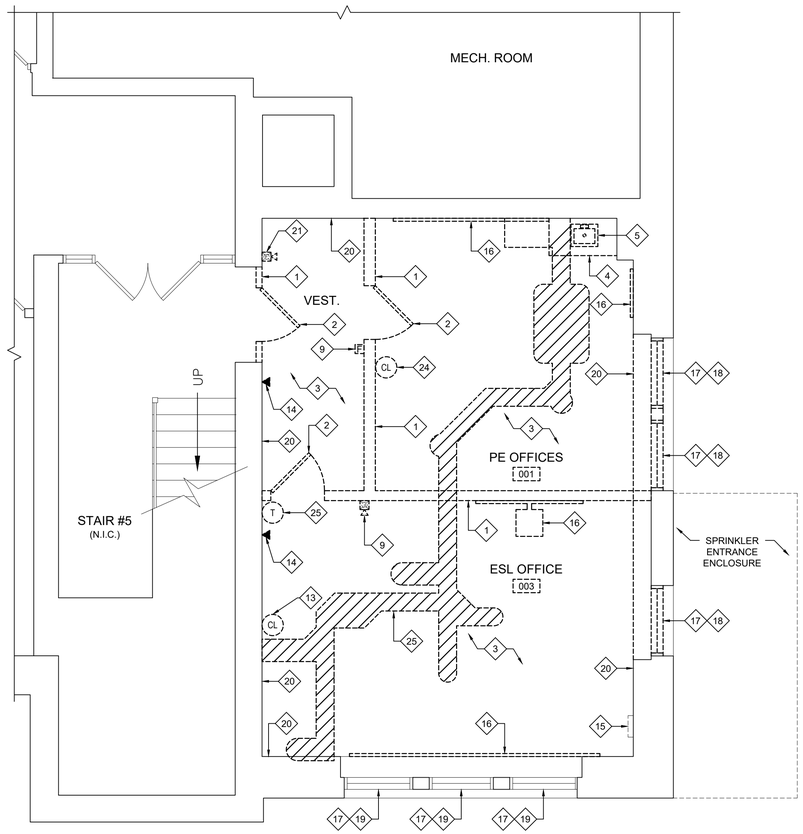
PARTIAL THIRD FLOOR EGRESS PLAN

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 109285CA010

CA0.14

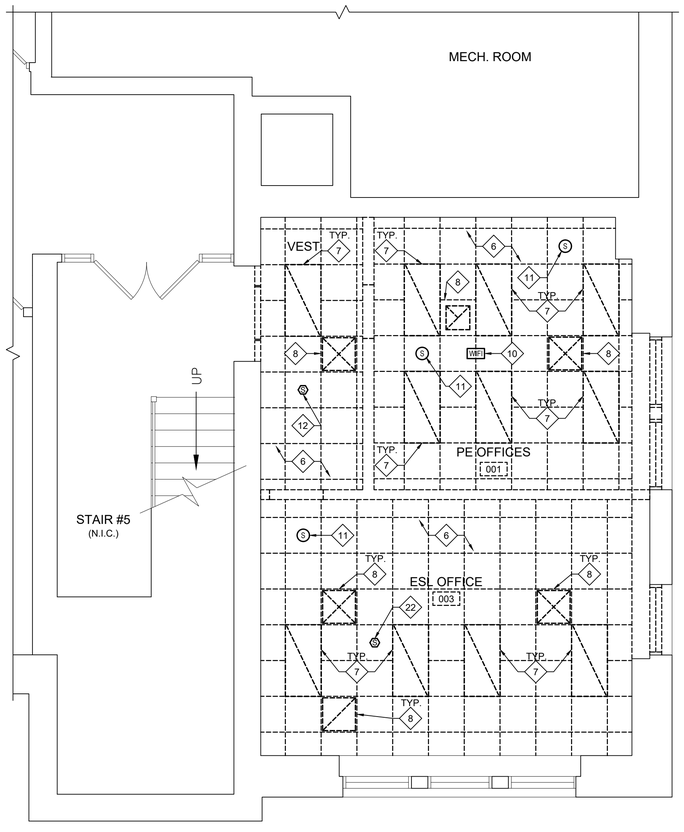


1 A1.01 **Existing Floor Plan w/ Demolition**

1/4" = 1'-0"

PARTIAL LOWER LEVEL FLOOR PLAN

NORTH



2 A1.01 **Existing Reflective Ceiling Plan w/ Demolition**

1/4" = 1'-0"

PARTIAL LOWER LEVEL FLOOR PLAN

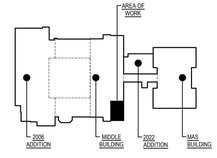
NORTH

Demolition Key Notes

◇# SYMBOL INDICATES CONSTRUCTION KEY NOTE

1. GC TO REMOVE EXISTING INTERIOR PARTITION, INCLUDING WALL BASE, GWB, STUDS, ELECTRICAL OUTLETS, SWITCHES, ETC. EC TO TERMINATE ALL ELECTRICAL COMPONENTS IN ACCORDANCE WITH NEC REQUIREMENTS. GC TO TEMPORARILY BRACE AND SHORE ALL REMAINING WALLS, FLOORS, AND CEILINGS AS REQUIRED PRIOR TO DEMOLITION.
2. GC TO REMOVE EXISTING DOOR, HINGES, FRAME, HARDWARE, CLOSER, ETC. CONFER WITH OWNER FOR SALVAGE PRIOR TO DISPOSAL.
3. GC TO REMOVE EXISTING FINISH FLOORING TO EXPOSE EXISTING SUB-FLOOR. GC TO PREPARE EXISTING SUB-FLOOR AS REQUIRED TO RECEIVE NEW FINISH FLOORING SEE DRAWING A2.01 FOR ADDITIONAL INFORMATION.
4. GC TO REMOVE AND DISCARD OF EXISTING CASEWORK INCLUDING COUNTERS, DOORS, HINGES, BLOCKING, SINKS, ETC. CONFER WITH OWNER FOR SALVAGE PRIOR TO DEMOLITION.
5. PC TO REMOVE EXISTING SINK IN ITS ENTIRETY. PC TO DISCONNECT ALL PLUMBING CONNECTIONS AND CAP AS REQUIRED PRIOR TO SINK REMOVAL. CONFER WITH OWNER FOR SALVAGE PRIOR TO DISPOSAL.
6. GC TO REMOVE AND DISCARD EXISTING SUSPENDED CEILING, TILE AND SOFFIT INCLUDING CEILING GRID, WALL ANGLES, SUPPORT WIRES, CLIPS, TIES, ETC.
7. EC TO DEMO EXISTING LIGHTING IN ITS ENTIRETY. EC TO TERMINATE ALL ELECTRICAL CONNECTIONS PER NEC REQUIREMENTS. SEE ELECTRICAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION. CONFER WITH OWNER FOR SALVAGE PRIOR TO DEMOLITION.
8. MC TO REMOVE EXISTING SUPPLY DIFFUSERS, RETURN AIR GRILLES , AND/OR LOUVERS IN THEIR ENTIRETY. SEE MECHANICAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
9. EC TO RELOCATE EXISTING FIRE ALARM DEVICE. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. EC TO RELOCATE EXISTING WIRELESS ACCESS POINT (WAP) AND ALL ASSOCIATED WIRING AND WIRE MOLD. TERMINATE ALL CONNECTIONS AS PER NEC REQUIREMENTS. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. EC TO RELOCATE EXISTING CEILING MOUNTED PA SPEAKER IN ITS ENTIRETY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
12. EC TO RELOCATE EXISTING SMOKE DETECTOR. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
13. EC TO DISCONNECT EXISTING CLOCK AND RELOCATE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
14. EC TO DISCONNECT EXISTING PHONE AND RELOCATE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. EXISTING PIPE CHASE (5'-11" A.F.F.) TO REMAIN.
16. GC TO REMOVE EXISTING WALL-MOUNTED TEACHER PRESENTATION UNIT (SMARTBOARD, WHITE BOARD, BLACK BOARD, TACK BOARD, PIN BOARD, WORLD MAP, ETC.) IN ITS ENTIRETY. CONFER WITH OWNER FOR SALVAGE PRIOR TO DISPOSAL. DISCONNECT PROJECTOR, SMARTBOARD (WHERE REQUIRED).
17. GC TO REMOVE EXISTING WINDOW SHADES AND HARDWARE IN THEIR ENTIRETY. CONFER WITH OWNER FOR SALVAGE PRIOR TO DISPOSAL.
18. GC TO REMOVE EXISTING EXTERIOR WINDOW, JAMB, SILL,. SASHES, INTERIOR TRIM, ETC. IN THEIR ENTIRETY. EXISTING LINTEL TO REMAIN.
19. EXISTING WINDOW TO REMAIN. GC TO PROTECT DURING CONSTRUCTION & DEMOLITION ACTIVITIES.
20. EXISTING WALL TO REMAIN.
21. EXISTING FIRE ALARM DEVICE TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
22. EXISTING SMOKE DETECTOR TO BE REMOVED AND REPLACED WITH WITH A HEAT DETECTOR. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
23. EXISTING DATA/PHONE JACK TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
24. EXISTING CLOCK TO BE REMOVED. CONFER WITH OWNER FOR SALVAGE PRIOR TO DISPOSAL. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
25. TRENCHING SHOWN ON THIS DRAWING IS TO BETTER HELP THE GC UNDERSTAND THE INTENT OF THE UNDER-SLAB PIPE ROUTING. THE GC IS RESPONSIBLE FOR CUTTING, TRENCHING AND INFILL OF THE TRENCH, AND SHALL COORDINATE WITH ALL OTHER TRADES IN THE FIELD THE GC SHALL EXAMINE EXISTING CONDITIONS TO VERIFY EACH ROUTE IS FREE FROM EXISTING UNDER-SLAB OBSTRUCTIONS.

MAMARONECK AVENUE SCHOOL



Key Plan

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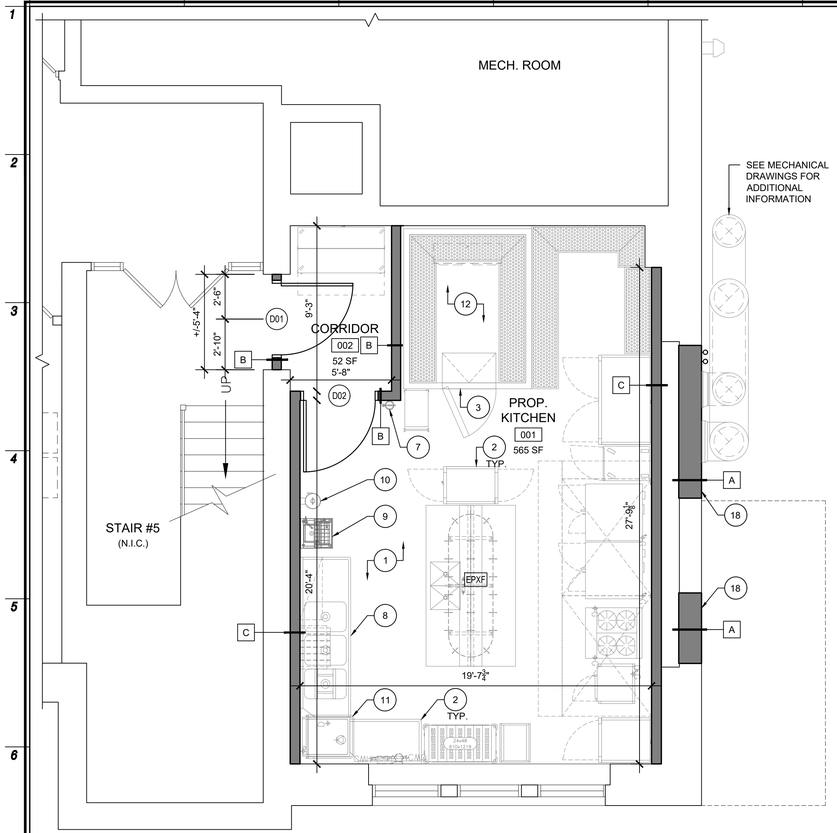
EXISTING FLOOR PLAN & RCP W/ DEMO

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

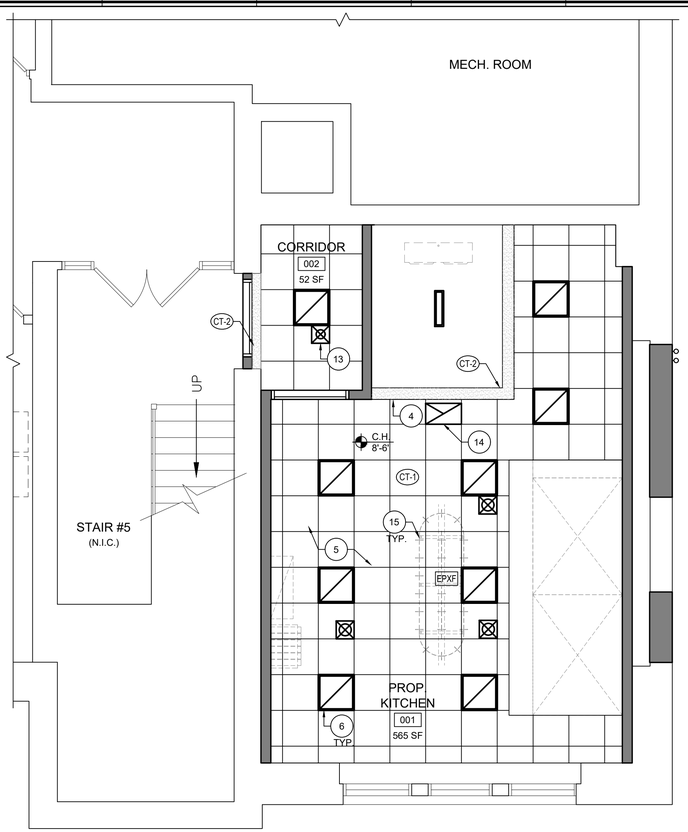
File No. 1092851A101

A1.01



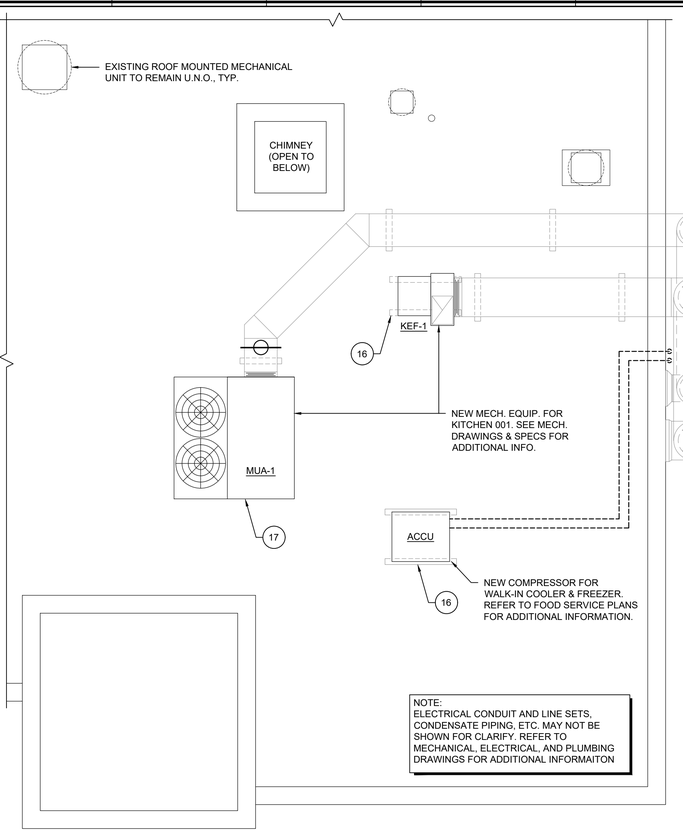
1 A2.01 Proposed Kitchen Floor Plan

1/4" = 1'-0" — PARTIAL LOWER LEVEL FLOOR PLAN — NORTH



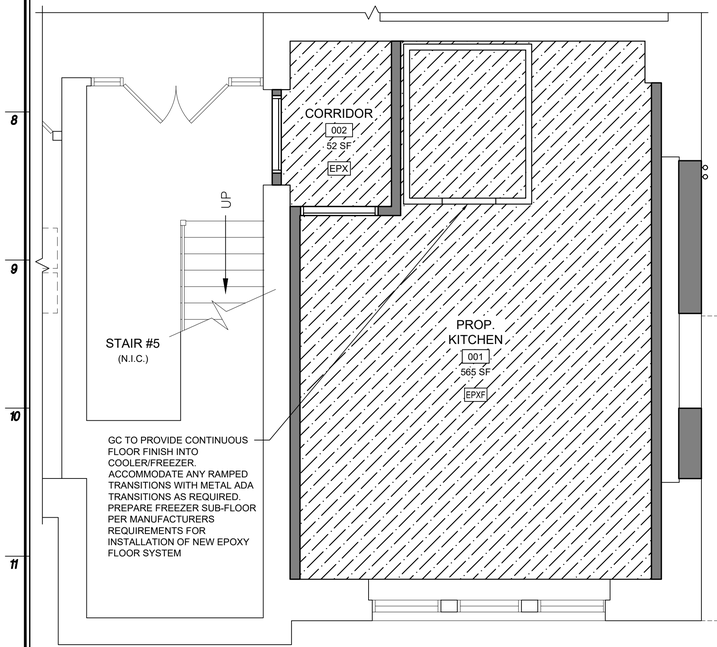
2 A2.01 Proposed Kitchen Reflective Ceiling Plan

1/4" = 1'-0" — PARTIAL LOWER LEVEL FLOOR PLAN — NORTH



3 A2.01 Proposed Roof Plan

1/4" = 1'-0" — PARTIAL ROOF PLAN — NORTH



4 A2.01 Proposed Kitchen Floor Finish Plan

1/4" = 1'-0" — PARTIAL LOWER LEVEL FLOOR PLAN — NORTH

Construction Key Notes

(#) SYMBOL INDICATES CONSTRUCTION KEY NOTE

1. CONTRACTOR TO PROVIDE AND INSTALL NEW FINISH FLOORING. REFER TO FINISH FLOOR PLAN 4/A2.01.
2. CONTRACTOR TO PROVIDE AND INSTALL NEW KITCHEN EQUIPMENT, TYPICAL. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR TO PROVIDE AND INSTALL NEW WALK-IN FREEZER. REFER TO FOOD SERVICE PLAN FS.1 AND EQUIPMENT SCHEDULE ON FS.2.
4. CONTRACTOR TO CONSTRUCT NEW METAL STUD & GWB SOFFIT AT PERIMETER OF WALK IN FREEZER. REFER TO 2/A2.01 AND DETAIL 5/A6.02.
5. CONTRACTOR TO INSTALL NEW SUSPENDED ACT CEILING. REFER TO CEILING TYPES ON A2.01 FOR ADDITIONAL INFORMATION.
6. CONTRACTOR TO INSTALL NEW LIGHTING FIXTURES. REFER TO PROPOSED CEILING POWER PLAN AND LIGHTING FIXTURE SCHEDULE ON E2.01.
7. CONTRACTOR TO PROVIDE AND INSTALL NEW FIRE EXTINGUISHER. REFER TO FOOD SERVICE PLANS FS.1 AND EQUIPMENT SCHEDULE FS.2.
8. CONTRACTOR TO INSTALL NEW (3) BAY WASH SINK. REFER TO FOOD SERVICE PLAN FS.1, EQUIPMENT SCHEDULE ON FS.2, AND PROPOSED PLUMBING PLANS ON P2.01.
9. CONTRACTOR TO INSTALL NEW HAND SINK. REFER TO FOOD SERVICE PLAN FS.1, EQUIPMENT SCHEDULE ON FS.2, AND PROPOSED PLUMBING PLANS ON P2.01.
10. CONTRACTOR TO INSTALL WALL MOUNTED EYE WASH STATION. REFER TO FOOD SERVICE PLAN FS.1, EQUIPMENT SCHEDULE ON FS.2, AND PROPOSED PLUMBING PLANS ON P2.01.
11. CONTRACTOR TO INSTALL NEW COMMERCIAL DISHWASHER. REFER TO FOOD SERVICE PLAN FS.1, EQUIPMENT SCHEDULE ON FS.2, AND PROPOSED PLUMBING PLANS ON P2.01.
12. **RESERVED.**
13. CONTRACTOR TO INSTALL NEW SUPPLY DIFFUSER. REFER TO MECHANICAL PLAN ON M2.10. COLOR OF DIFFUSER TO BE SELECTED FROM MANUFACTURER'S FULL RANGE.
14. CONTRACTOR TO INSTALL NEW RETURN AIR GRILLE. REFER TO MECHANICAL PLAN ON M2.10. COLOR OF GRILLE TO BE SELECTED FROM MANUFACTURER'S FULL RANGE.
15. CONTRACTOR TO PROVIDE AND INSTALL TABLE MOUNTED POT RACK. REFER TO FOOD SERVICE PLAN FS.1 AND EQUIPMENT SCHEDULE ON FS.2.
16. CONTRACTOR TO INSTALL NEW FREEZER COMPRESSOR (ACCU) AND KITCHEN EXHAUST FAN (KEF-1) ON CURB RAILS. SEE DETAIL 1/M6.01. FLASH CURBS INTO EXISTING FOAM ROOFING WITH SILICONE ROOFING MATERIAL. B.O.D. ROOFING SYSTEM SHALL BE "TREMCO ALPHAGUARD SI" OR APPROVED EQUAL.
17. CONTRACTOR TO INSTALL NEW MAKE-UP AIR UNIT (MUA-1) ON MECHANICAL CURB. REFER TO SHEET M6.02. MUA-1 UNIT CENTER OF GRAVITY SHALL BE POSITIONED OVER MASONRY BEARING WALL BELOW FOR STRUCTURAL SUPPORT. ELECTRICAL CONDUIT FOR MUA-1 SHALL PENETRATE ROOF WITHIN MECHANICAL CURB. FLASH CURB INTO EXISTING FOAM ROOFING WITH SILICONE ROOFING MATERIAL. B.O.D. ROOFING SYSTEM SHALL BE "TREMCO ALPHAGUARD SI" OR APPROVED EQUAL.
18. CONTRACTOR SHALL INFILL EXISTING WINDOW OPENING WITH NEW EXTERIOR WALL ASSEMBLY. BRICK FACADE SHALL MATCH THAT OF ADJACENT BRICK IN SIZE, COLOR AND BOND PATTERN. CONTRACTOR SHALL TOOTH NEW BRICK INTO EXISTING FACADE PER DETAIL 7/A6.02.

Ceiling Types

MARK	DESCRIPTION	SYMBOL
(CT-1)	ARMSTRONG 2'x2'x⅝" KITCHEN ZONE" SQUARE LAY-IN ACOUSTINC CEILING TILE W/ ARMSTRONG "PRELUDE XL" 15/16" EXPOSED TEE GRID	
(CT-2)	'GP' ½" THICK 'DENSARMOR PLUS ABUSE-RESISTANT' BRAND ABUSE/WATER/MOLD/FIRE-RESISTANCE INTERIOR PANELS. FINISH JOINTS AND PAINT, TYP. USE DRYWALL SUSPENSION GRID UNO	

Typical Ceiling Notes

1. PENETRATIONS THROUGH CEILINGS ARE TO BE PROTECTED PER RATED DESCRIPTIONS. REFER TO FIRE RESISTANT RATED ASSEMBLIES, WALL AND CEILING TYPES.
2. ALL ACCESS PANELS, HATCHES/LADDERS, GYPSUM BOARD SOFFITS, BULKHEAD, HVAC GRILLES AND REGISTERS, SHALL BE PAINTED TO MATCH CEILING FINISHES.
3. SUSPENDED ACOUSTIC TILE CEILINGS SHALL BE CENTERED IN SPACE IN BOTH DIRECTIONS TO MINIMIZE WASTE AS REQUIRED, UNLESS OTHERWISE INDICATED, FIELD VERIFY.
4. ALL AREAS NOT GRIDDED AS CEILING TILE SHALL BE OPEN TO ABOVE UNLESS OTHERWISE NOTED.
5. TENT ALL LIGHT FIXTURES IN RATED FLOOR/CEILING, ROOF/CEILING ASSEMBLIES AS REQUIRED. REFER TO FIRE RESISTANT RATED ASSEMBLIES DRAWING FOR ADDITIONAL INFORMATION.
6. ALL CONTRACTORS (I.E. MECHANICAL, ELECTRICAL, PLUMBING) ARE REQUIRED TO COORDINATE THEIR WORK WITH INDIVIDUAL CEILING FINISHES. ALL DISTURBED AREAS RESULTING FROM CONTRACTORS OPERATIONS SHALL BE PATCHED AND DAMAGED AREAS AS A RESULT OF CONTRACTORS OPERATIONS SHALL BE PATCHED AND REPAIRED TO MATCH.
7. FIELD VERIFY ALL DIMENSIONS AND CLEARANCES. COORDINATE INSTALLATION OF LIGHTING, EQUIPMENT, MECHANICAL DUCTWORK, ETC. TO ENSURE PROPER INSTALLATION.
8. ALL COLORS AND PATTERNS TO BE SELECTED BY OWNER, TYPICAL.
9. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY ACCESSORIES INCLUDING PERIMETER MOLDINGS, FASTENERS, SUPPORT WIRES, TRIM, ETC. FOR A COMPLETE INSTALLATION.
10. ALL LIGHTING FIXTURES SHOWN ON REFLECTED CEILING PLAN ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY, REFER TO ELECTRICAL LIGHTING PLAN FOR ACTUAL LOCATIONS.
11. AT LOCATIONS WHERE NEW CEILING ADJOINS, ABUTS, OR EXTENDS AN EXISTING CEILING, NEW CEILING GRID SHALL MATCH THAT OF EXISTING.

Symbol Legend

SYMBOL	DESCRIPTION
0'-0"	DATUM: FINISH CEILING HEIGHT ABOVE FINISH FLOOR
(CT-#)	CEILING TYPE (REFER TO CEILING TYPES SCHEDULE)
	LIGHTING FIXTURES - REFER TO ELECTRICAL PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS. CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR CEILING DIFFUSER LOCATIONS.
	CEILING MOUNTED EQUIPMENT - REFER TO ELECTRICAL PLANS FOR EXACT FIXTURE LOCATIONS. CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR CEILING DIFFUSER LOCATIONS. MECHANICAL DIFFUSERS - REFER TO MECHANICAL PLANS FOR EXACT CEILING DIFFUSER LOCATIONS. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LIGHT FIXTURE LOCATIONS. SPRINKLER HEADS AND PIPING - REFER TO FIRE PREVENTION DRAWINGS

NOTE:
SEE DOOR DETAILS FOR FLOOR TRANSITIONS AT DOOR SILLS, TYPICAL.

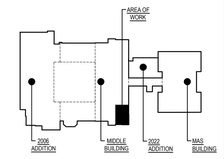
REFER TO GENERAL NOTES ON SHEET **A2.01**

(#) SYMBOL DENOTES WALL TYPES, REFER TO PARTITION TYPE SHEET **A8.01**

(X#) SYMBOL INDICATES CONSTRUCTION KEY NOTE

REFER TO CONSTRUCTION KEY NOTES ON SHEET **A2.01**

MAMARONECK AVENUE SCHOOL



Key Plan

NOT TO SCALE — PROJECT NORTH

Date	12/20/22
Checked	TT
Drawn	BP

MICHAEL J. McGOVERN, R.A.
License No. 022257-1
Title REGISTERED ARCHITECT

Revisions:

#	
1	08/02/23 ISSUE FOR RE-BID

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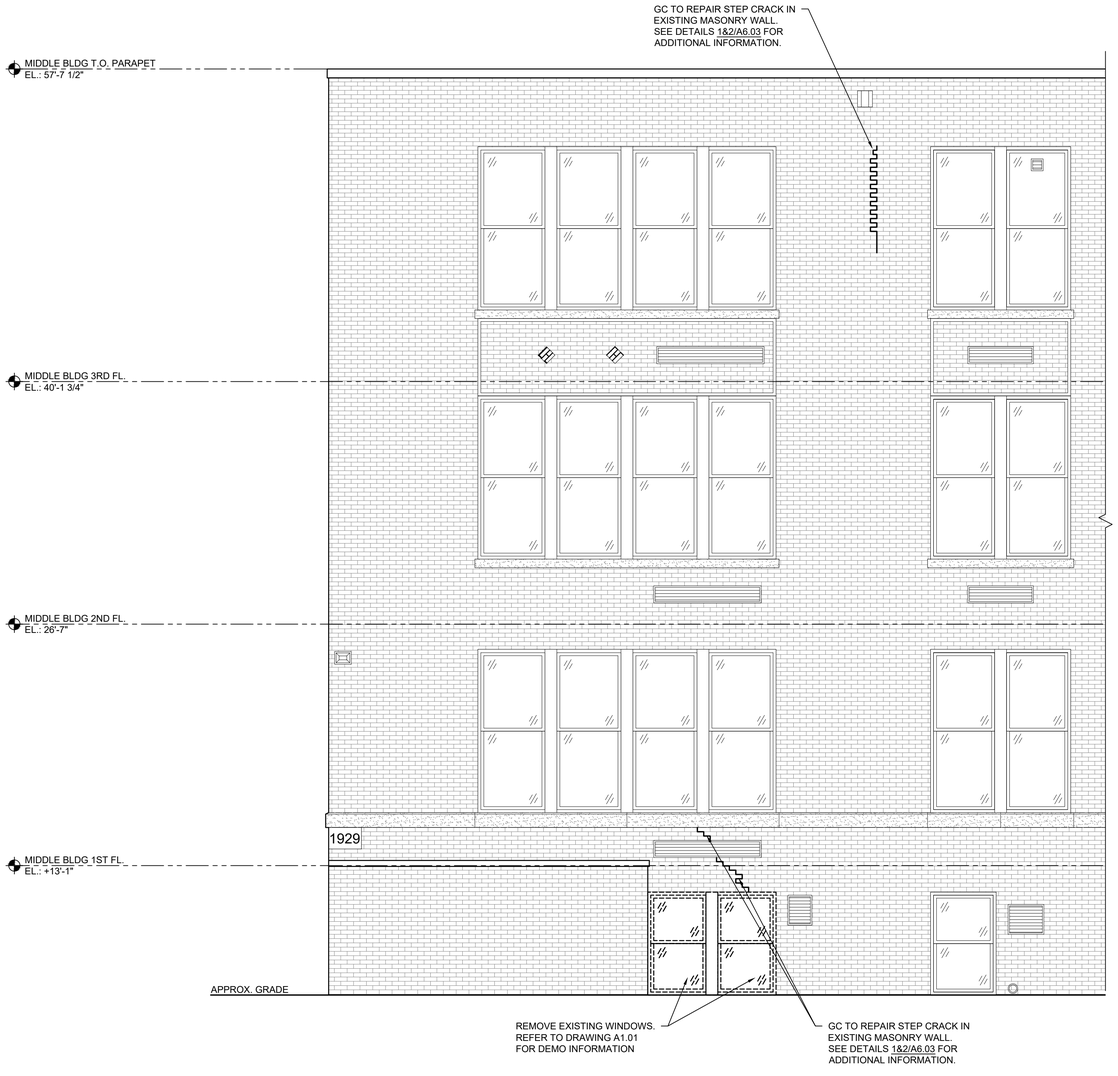
NYSED PROJECT # 66-07-01-03-0-004-033

PROPOSED KITCHEN FLOOR PLAN & RCP
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

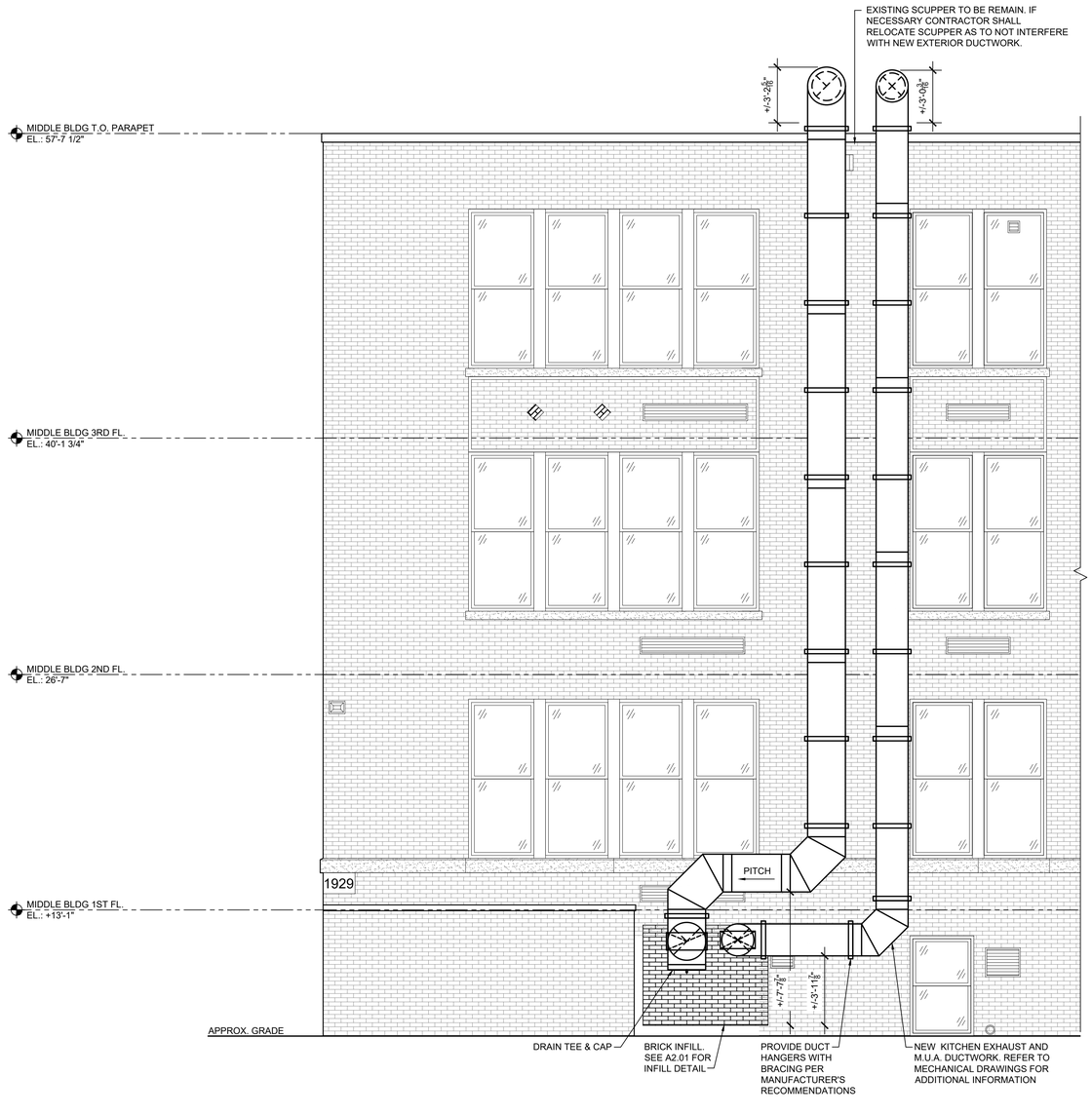
Job No. 4.1092.85
File No. 109285A201

A2.01



1 A3.01 Partial Elevation - Demolition

1/4" = 1'-0"



2 A3.01 Partial Elevation - Proposed

1/4" = 1'-0"

Date	12/20/22
Checked	TT
Drawn	TT

MICHAEL J. McGOVERN, R.A.
Title REGISTERED ARCHITECT License No. 022257-1

Revisions:

08/02/23 ISSUE FOR RE-BID

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NYSED PROJECT # 66-07-01-03-0-004-033

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PARTIAL BUILDING ELEVATION

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 4109285A301

A3.01

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	ROOM NAME/ NUMBER	DOOR							FRAME			SILL	HARDWARE (SEE SPECIFICATIONS)			NOTES
			ACTION	MATERIAL	FIRE RATING	DOOR FINISH	DOOR SIZE		VISION PANEL	DETAIL NO.			DETAIL NO.	HARDWARE SET	CLOSER	PANIC	
							WIDTH	HEIGHT		MAT.	HEAD	JAMB					
LOWER LEVEL																	
D01	A	KITCHEN	SINGLE SWING	MTL	90 MIN.	PAINT	4'-0"	7'-0"		MTL	2/A6.02	3/A6.02	4/A6.02	01	■	-	
D02	A	CORRIDOR	SINGLE SWING	MTL	90 MIN.	PAINT	4'-0"	7'-0"		MTL	2/A6.02	3/A6.02	4/A6.02	02	■	-	

Door & Door Hardware Notes

1. DOOR ELEVATIONS & DOOR HARDWARE ARE PROVIDED TO DEMONSTRATE THE "TYPICAL" CONDITION. REFER TO DOOR SCHEDULE AND DOOR HARDWARE SPECIFICATION FOR ACTUAL DOOR HARDWARE REQUIREMENTS. REFER TO FINISH HARDWARE SPECIFICATION AND SCHEDULE FOR HARDWARE SET INFORMATION.
2. CONTRACTOR TO FIELD VERIFY ALL MASONRY OPENING SIZES, DOOR SIZES, HINGE LOCATIONS, DOOR SWING ETC. AND PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ORDERING DOORS.
3. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN PRIOR TO THE BID TO BE OF LIKE KIND AND OF EQUAL QUALITY.
4. ALL DOOR FINISHES ARE SPECIFIED ON THE DOOR SCHEDULE AND NOTED IN THE SPECIFICATIONS. COLOR SHALL BE SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE.
5. CONTRACTOR TO PATCH AND REPAIR ALL DISTURBED INTERIOR AND EXTERIOR FINISHES AS REQUIRED.
6. CONTRACTOR SHALL VERIFY AND COORDINATE ALL HARDWARE WITH OWNER PRIOR TO ORDERING OR INSTALLING. COORDINATE WITH ACTUAL FIELD CONDITIONS FOR A COMPLETE INSTALLATION.
7. CONTRACTOR SHALL COORDINATE WITH OWNER TO KEY ALL CYLINDERS TO MATCH EXISTING MASTER KEYING SYSTEM FOR COMPANY STANDARDS.
8. CONTRACTOR SHALL PROVIDE FIRE RATED GLAZING IN FIRE RATED DOOR AND FRAME ASSEMBLIES AS REQUIRED TO ACHIEVE THE MINIMUM FIRE RATING. REFER TO DOOR ELEVATIONS.
9. ALL INTERIOR FIRE RATED GLAZING IN DOORS, SIDELITES AND WINDOWS SHALL BE FIRELITE PLUS 1/4" THICK CLEAR GLASS OR PILKINGTON PYROSTOP CLEAR GLASS AS INDICATED ON DOOR SCHEDULE / DOOR ELEVATIONS. CONTRACTOR SHALL PROVIDE FIRE RATED DOOR ASSEMBLY INCLUDING FRAMES AND GLAZING TO COMPLY WITH BUILDING CODE. SEE DOOR SCHEDULE FOR ASSEMBLY FIRE RATINGS.
10. ALL DOOR HARDWARE, CARD ACCESS READER AND SECURITY HARDWARE SHALL BE COORDINATED WITH OWNER REQUIREMENTS. PROVIDE POWER AS REQUIRED.
11. CONTRACTOR SHALL COORDINATE WITH OWNERS REQUIREMENTS FOR OVERHEAD DOOR OPTIONS AND CONTROLS
12. GC TO PROVIDE AND INSTALL ALL REQUIRED BLOCKING, SHIMS, AND SEALANT FOR A COMPLETE INSTALLATION. WOOD TO BE PRESSURE TREATED WHERE APPLICABLE.

Floor Finish Legend

SYMBOL	ABBREVIATIONS	DESCRIPTIONS
(COLOR 1)	EPXF	POURED EPOXY HYBRID FLOORING: 3/16" THICK HYBRI-FLEX EC FLOORING BY DUR-A-FLEX, EARTHSTONE CHIP BLEND OR MACRO CHIP COLOR OR APPROVED EQUAL IN (2) COLOR SCHEME AS SHOWN ON PLAN. INTEGRAL 6" EPOXY COVE BASE WITH MANUFACTURERS METAL TRANSITION BETWEEN WALL AND COVE BASE

ABBREVIATIONS	DESCRIPTIONS
AS	ADA ALUMINUM SADDLE
EJ	EXPANSION JOINT
AT	NEW ADA ALUMINUM LEVEL TRANSITION STRIP, REDUCER, OR RAMPED REDUCER

SURFACE PREPARATION NOTE:

FOR ALL WORK AREAS: WHERE REQUIRED, NEW FLOOR TO BE INSTALLED OVER SELF LEVELING MATERIAL. BASIS OF DESIGN TO BE 'CMP LEVEL 1' SELF-LEVELING WITH 'CMP LOCKDOWN' VAPOR SUPPRESSION SYSTEM.

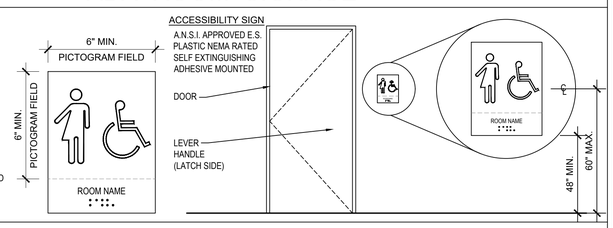
REFER TO FLOOR PATTERN PLANS OF INDIVIDUAL AREAS AND SPECIFICATION SECTION 035416 FOR ADDITIONAL INFORMATION. CONSULT INDIVIDUAL FLOORING MANUFACTURER TO VERIFY SURFACE PREPARATION REQUIREMENTS AND COMPATIBILITY.

Interior Finish Notes

1. CONTRACTOR SHALL PREP ALL SUBFLOORS AS REQUIRED TO ACCEPT NEW FLOOR FINISHES.
2. FLOOR FINISH MATERIALS SHALL BE INSTALLED CONTINUOUS UNDER CASEWORK. INFORMATION ON PLANS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND FLOOR FINISHES UNDER CASEWORK MAY NOT BE SHOWN FOR CLARITY.
3. ALL FLOOR PENETRATIONS SHALL BE SEALED WITH LISTED/RATED MATERIAL TO MAINTAIN INTEGRITY AND CONTINUITY OF FIRE ASSEMBLIES.
4. AT LOCATIONS WHERE THE EXISTING FLOOR FINISHES ARE TO REMAIN, DEMO ONLY AS MUCH AS REQUIRED TO ACCOMMODATE NEW PARTITIONS. WALL BASE AT THESE LOCATIONS SHALL MATCH EXISTING ADJACENT WALL BASE.
5. COLORS, PATTERNS AND TEXTURES OF ALL FINISH MATERIALS SHALL BE SELECTED BY ARCHITECT/OWNER. PROVIDE SAMPLES FROM MANUFACTURER'S FULL RANGE AS REQUIRED

ADA ROOM SIGNAGE

1. LETTERS AND NUMERALS MUST BE RAISED 1/32" FROM SIGN SURFACE.
2. CHARACTER HEIGHT MUST BE AT LEAST 5/8" BUT NOT EXCEED 2".
3. TYPE STYLE FOR LETTERS AND NUMBERS SHALL BE "SANS SERIF". CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
4. WORDS AND NUMBERS MUST BE CONVERTED INTO GRADE 2 BRAILLE, AND BE APPLIED TO SIGN.
5. PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW PICTOGRAM.



SIGNAGE NOTES:
1. ALL SIGNAGE SHALL CONFORM WITH THE ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES GUIDELINES IN ACCORDANCE WITH ICC/ANSI A117.1-2009.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED SIGNAGE. COORDINATE ROOM NAMES AND NUMBERS WITH OWNER'S REQUIREMENTS, TYPICAL.
3. SEE SPECIFICATION SECTION 101419 FOR SIGNAGE SCHEDULE AND ADDITIONAL INFORMATION.

INTERIOR FINISH SCHEDULE

ROOM NO.	ROOM NAME	SUB-FLOOR	FLOOR FINISH	BASE	BASE HEIGHT	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	SIGNAGE SET	NOTES	CEILING	CEILING HEIGHT
LOWER LEVEL													
001	KITCHEN	CONC	EPXF	EXPC	4"	EXPW	EXPW	EXPW	EXPW	1		ACT	8'-6"
002	CORRIDOR	CONC	EPXF	EXPC	4"	EXPW	EXPW	EXPW	EXPW	1		ACT	8'-6"

SURFACE PREPARATION NOTE:

FOR ALL WORK AREAS: WHERE REQUIRED, NEW FLOOR TO BE INSTALLED OVER SELF LEVELING MATERIAL. BASIS OF DESIGN TO BE 'CMP LEVEL 1' SELF-LEVELING WITH 'CMP LOCKDOWN' VAPOR SUPPRESSION SYSTEM.

FINISH CLASSIFICATION NOTES:

ALL FINISHES IN REQUIRED VERTICAL EXITS AND PASSAGEWAYS SHALL BE OF CLASS A MATERIALS.

ALL FINISHES IN PASSAGEWAYS WHICH ARE NOT PART OF AN EXIT, INTERIOR FINISHES SHALL BE CLASS A or B.

ALL FINISHES IN OFFICES OR ENCLOSED SPACES SHALL BE OF CLASS C MATERIALS. CLASS D MATERIALS NOT PERMITTED.

WHEN AN APPROVED SPRINKLER SYSTEM IS PROVIDED THROUGH OUT THE BUILDING, CLASS B INTERIOR FINISH MAY BE USED IN LOCATIONS WHERE CLASS A IS REQUIRED, AND CLASS C MAY BE USED IN LOCATIONS WHERE CLASS B IS REQUIRED.

NOTE:
WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE KIND AND OF EQUAL QUALITY.

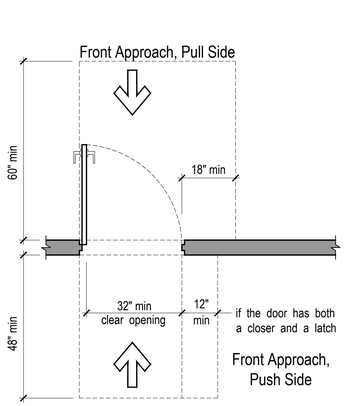
SIGNAGE NOTE:
NEW SIGNAGE TO BE PROVIDED AND INSTALLED BY GC FOR ALL NEW AND REPURPOSED SPACES. REFER TO SPECIFICATION SECTION 101419 AND 'ADA ROOM SIGNAGE' INFORMATION ON THIS SHEET. COORDINATE ALL SIGNAGE REQUIREMENTS WITH OWNER.

Finish Legend

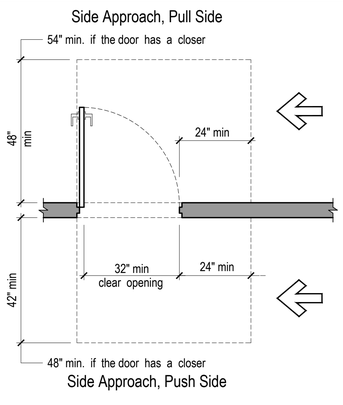
ABBREVIATIONS	DESCRIPTIONS
ACT	ACOUSTIC CEILING TILE: REFER TO REFLECTED CEILING PLAN FOR CEILING TYPES (CT-#)
CONC	CONCRETE
EPXF (FLOOR)	EPOXY/ALIPHATIC URETHANE TOPCOAT SEAMLESS FLOORING SYSTEM. REFER TO FLOOR FINISH LEGEND AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
EPXC (COVE)	4" INTEGRAL EPOXY COVE BASE. PROVIDE MANUFACTURERS METAL TRANSITION BETWEEN WALL AND COVE BASE.
EPXW (WALL)	EPOXY WALL SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. FULL HEIGHT OF WALL UNLESS NOTED OTHERWISE, TYPICAL.
ETR	EXISTING TO REMAIN

Interior Finish General Notes

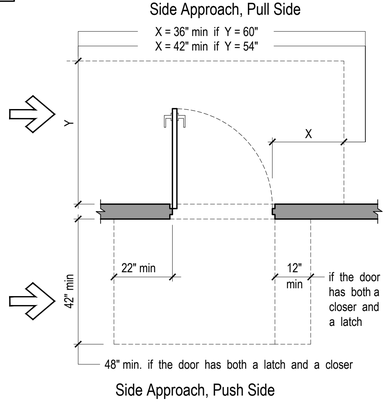
1. REFER TO FINISH LEGEND FOR FINISH DESCRIPTIONS.
2. REFER TO FLOOR FINISH LEGEND ON SHEET A2.01 FOR FLOOR PATTERNS
3. WHERE NEW WALLS / FINISHES INTERSECT EXISTING, CONTRACTOR SHALL FINISH / SEAL INTERSECTION OR GAPS TO ACHIEVE A FINISHED APPEARANCE THROUGHOUT.
4. ALL DISTURBED SURFACES SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING. ANY DAMAGE RESULTING FROM THE CONTRACTOR(S) ACTIONS SHALL BE REPAIRED IN LIKE AND KIND AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL COORDINATE FINISHES WITH INSTALLATION OF TOILET ACCESSORIES, PLUMBING FIXTURES, DOOR BUCKS, THRESHOLDS, LIGHTING FIXTURES, HVAC GRILLES, CASEWORK, FURNITURE, ETC.
6. CONTRACTOR SHALL COORDINATE FLOOR TRANSITIONS BETWEEN FINISH MATERIALS AND CHANGES IN ELEVATION TO BE BARRIER-FREE ADA COMPLIANT.
7. CONTRACTOR SHALL FURNISH AND INSTALL TRANSITION STRIP AT ALL CHANGES BETWEEN FLOOR FINISH MATERIALS AS REQUIRED TO BE BARRIER-FREE ADA COMPLIANT.
8. CONTRACTOR SHALL COORDINATE INSTALLATION OF FINISHES WITH RESPECTIVE TRADES TO ACCOMMODATE THE INSTALLATION OF PLUMBING, MECHANICAL, LIGHTING, ETC. REFER TO REFLECTED CEILING PLAN, CEILING TYPE SCHEDULE AND DETAILS.
9. ALL FLOOR FINISH MATERIALS SHALL BE OF SLIP-RESISTANT SURFACE.
10. COLORS, PATTERNS AND TEXTURES OF ALL FINISH MATERIALS SHALL BE SELECTED BY OWNER. PROVIDE SAMPLES AS REQUIRED.
11. ALL ACCESS PANELS, HATCHES, GYPSUM BOARD SOFFITS, BULKHEADS, HVAC GRILLES AND REGISTERS SHALL BE PAINTED TO MATCH CEILING FINISHES UNLESS INDICATED OTHERWISE.
12. ALL FLOOR FINISHES SHALL BE CONTINUOUS UNDERNEATH BUILT-IN FURNITURE AND CASEWORK. INFORMATION SHOWN ON PLANS IS FOR DIAGRAMMATIC PURPOSES ONLY AND FLOOR FINISHES UNDER CASEWORK MAY NOT BE SHOWN FOR CLARITY.
13. ALL FLOOR PENETRATIONS ARE REQUIRED TO BE SEALED WITH LISTED/RATED MATERIAL TO MAINTAIN 2-HOUR FIRE RATING OF THE FLOOR SLAB.
14. INSTALL PVC MOLDED CORNER GUARDS AT ALL EXTERIOR CORNERS OF METAL STUD AND GWB WALLS, COLOR TO MATCH WALL.
15. ALL DOOR FRAMES WITHIN AREAS OF WORK TO BE PAINTED, COLOR SELECTED BY OWNER.
16. CONTRACTOR SHALL PREP ALL SUBFLOORS AS REQUIRED TO ACCEPT NEW FLOOR FINISHES.
17. AT AREAS WHERE EXISTING FLOOR FINISHES ARE TO REMAIN, DEMO ONLY AS MUCH AS REQUIRED TO ACCOMODATE NEW WORK. PROVIDE AND INSTALL NEW WALL BASE AT THESE LOCATIONS TO MATCH EXISTING ADJACENT WALL BASE.



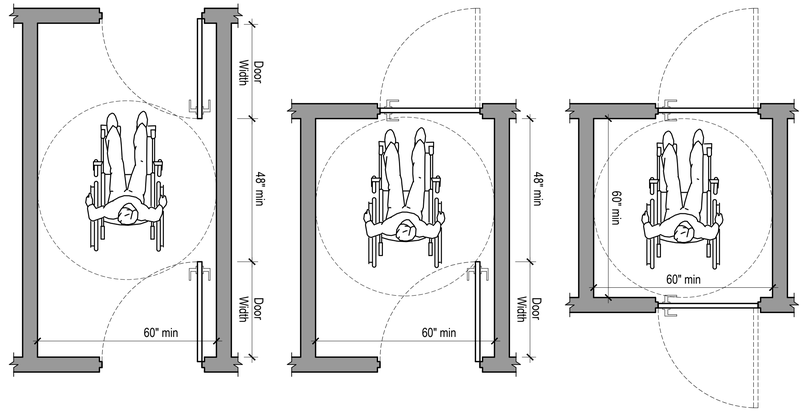
A Door Maneuv. Clearances
N.T.S.



B Door Maneuv. Clearances
N.T.S.



C Door Maneuv. Clearances
N.T.S.



D Door Maneuv. Clearances - Two Hinged Doors In Series
N.T.S.

Date	12/20/22
Checked	MJM
Drawn	BP

MICHAEL J. McGOVERN, R.A.
License No. 022257-1
Title REGISTERED ARCHITECT

Revisions:

#	08/02/23 ISSUE FOR RE-BID

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252 Main Street, Goshen, New York 10924 | t. 845-615-0350 | f. 845-615-0351

NYSED PROJECT # 66-07-01-03-0-004-033

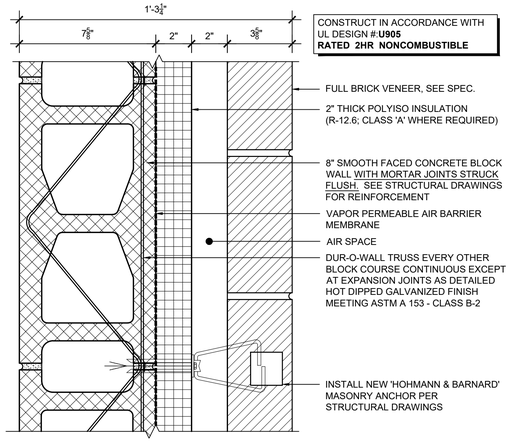
SCHEDULES

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 109285A601

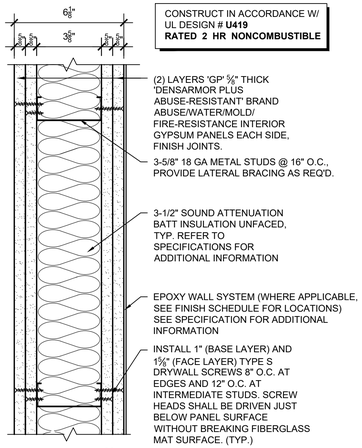
A6.01



CONSTRUCT IN ACCORDANCE WITH UL DESIGN #:**U905**
RATED 2HR NONCOMBUSTIBLE

A Wall Type

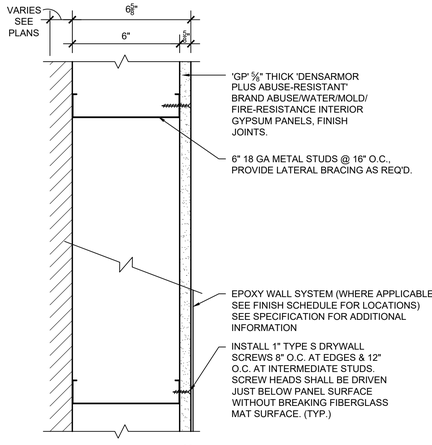
3" = 1'-0" EXTERIOR WALL INFILL



CONSTRUCT IN ACCORDANCE W/ UL DESIGN # **U419**
RATED 2 HR NONCOMBUSTIBLE

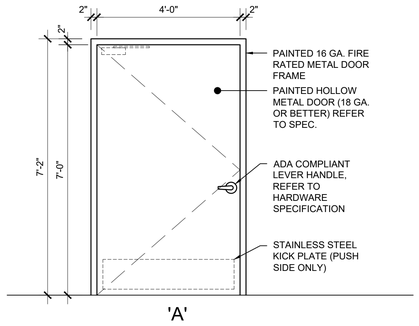
B Wall Type

3" = 1'-0" INTERIOR PARTITION



C Wall Type

3" = 1'-0" INTERIOR PARTITION



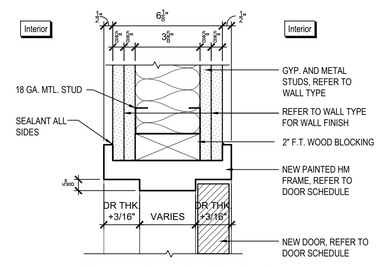
'A'

Door Types

1/2" = 1'-0"

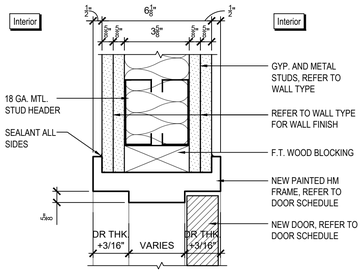
1 A6.02 Door Sill Detail

3"= 1'-0"



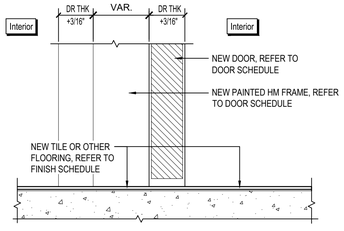
3 A6.02 Door Jamb Detail

3"= 1'-0"



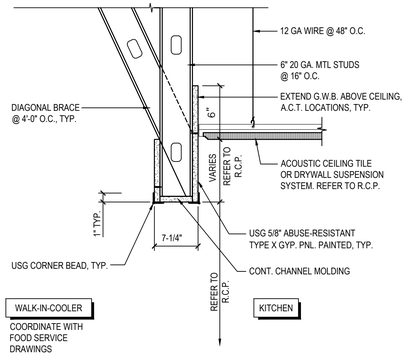
2 A6.02 Door Head Detail

3"= 1'-0"



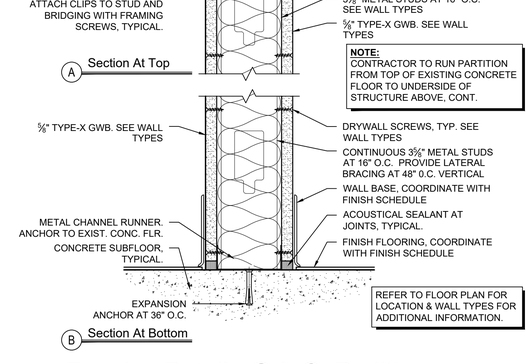
4 A6.02 Door Sill Detail

3"= 1'-0"



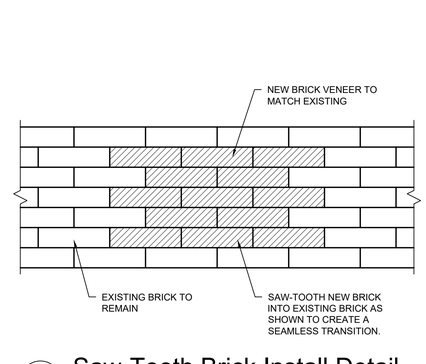
5 A6.02 Typical Bulkhead Detail

1-1/2" = 1'-0" SUSPENSION CEILING SYSTEM



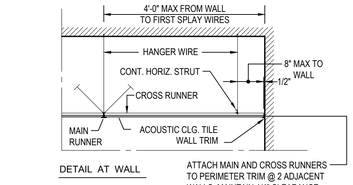
6 A6.02 Framing Details @ L.G. Partition

3"= 1'-0"



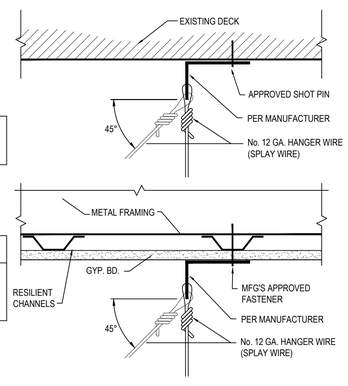
7 A6.02 Saw-Tooth Brick Install Detail

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



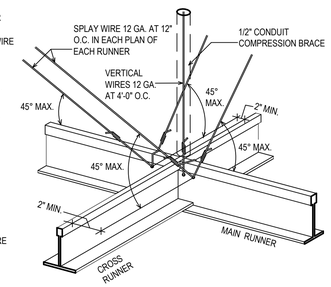
A A6.02 Typ. Seismic Bracing

3/8" = 1'-0" SUSPENSION CEILING SYSTEM



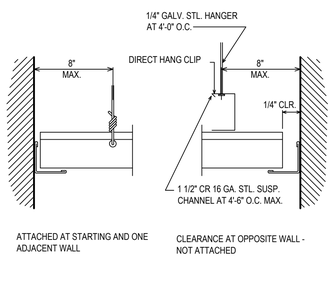
B A6.02 Typ. Hanger Wire Detail

1-1/2" = 1'-0" SUSPENSION CEILING SYSTEM



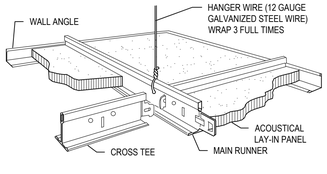
C A6.02 Typ. Susp. Ceiling Detail

1-1/2" = 1'-0" SUSPENSION CEILING SYSTEM



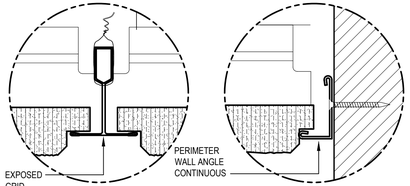
D A6.02 Typ. Clng. Edge Detail

1-1/2" = 1'-0" SUSPENSION CEILING SYSTEM



E A6.02 Typ. Susp. Ceiling

N.T.S. ACOUSTIC PANEL SUSP. SYSTEM



F A6.02 Typ. Susp. Profiles

N.T.S. ACOUSTIC PANEL SUSP. SYSTEM

Date	12/20/22
Checked	MJM
Drawn	BP

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NYSED PROJECT # 66-07-01-03-0-004-033

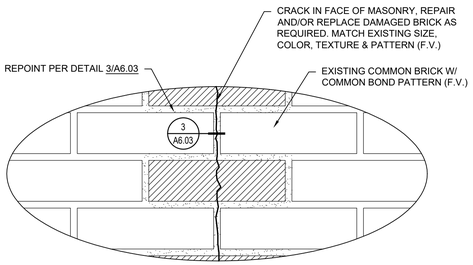
DETAILS

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

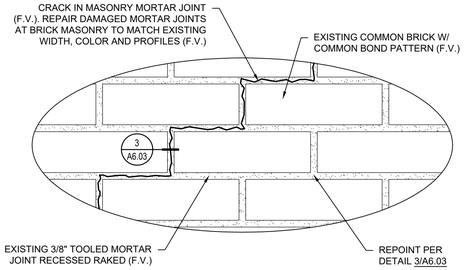
File No. 109285A601

A6.02



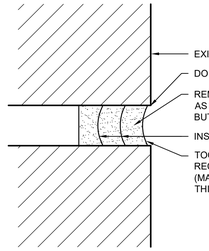
1 A6.03 Cracked Brick Repair / Repointing

N.T.S.



2 A6.03 Repointing / Joint Repair

N.T.S.



3 A6.03 Brick Repointing Detail

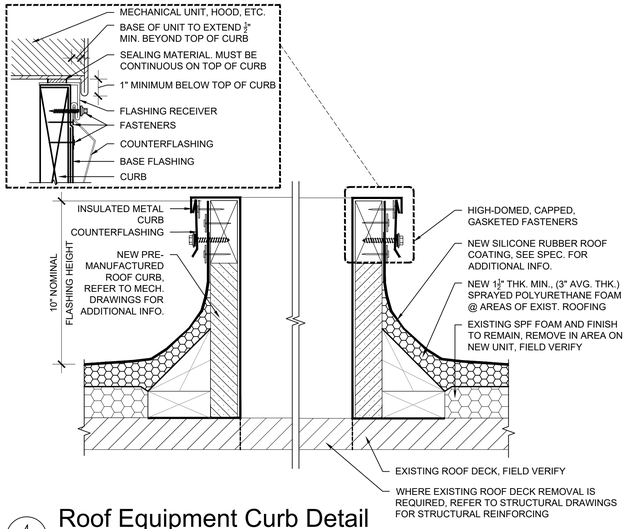
N.T.S.

MORTAR NOTES:

- MORTAR IN NEW WALLS SHALL BE TYPE "S" MORTAR, TYP. COLOR TO BE SELECTED BY OWNER AND ARCHITECT. SUBMIT SAMPLES OF MORTAR TO ARCHITECT / OWNER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- REPLACEMENT MORTAR SHALL MATCH THAT OF EXISTING IN TYPE, COMPOSITION AND COLOR. CONTRACTOR SHALL TEST MORTAR FOR COMPOSITION TO RECREATE. PROVIDE SAMPLES TO OWNER/ARCHITECT FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.

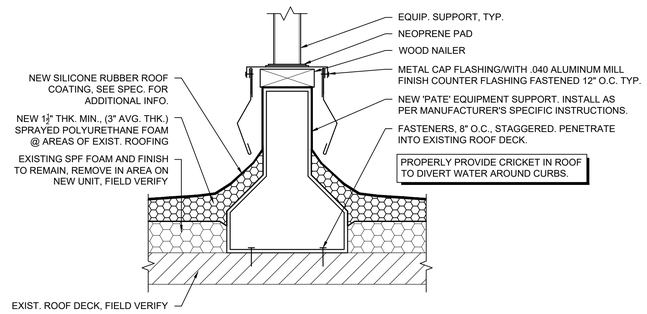
BRICK RE-POINTING CORRECTIVE PROCEDURE:

1. CLEAN OUT CRACK OF ALL LOOSE MORTAR, BRICK, CONTAMINANTS, AND IMPURITIES.
2. ROUT CRACK TO 1/8" MIN. WIDTH.
3. PRIME ALL SURFACES TO RECEIVE SEALANT, WITH APPROVED PRIMER, AS PER SEALANT MANUFACTURER'S SPECIFICATIONS.
4. MASK ALL ADJOINING SURFACES WITH TAPE TO ENSURE A NEAT JOB AND TO PROTECT ADJOINING SURFACES.
5. INSERT BACKUP MATERIAL INTO JOINT.
6. APPLY SEALANT.
7. REMOVE MASKING TAPE IMMEDIATELY AFTER THE FINISH TOOLING OF THE SEALANT IS ACCOMPLISHED AND BEFORE THE SEALANT BEGINS TO CURE.
8. THE SEALANT SHALL MEET FEDERAL SPEC. TT-S-00230C TYPE II, CLASS A. THE SEALANT SHALL BE APPLICABLE IN VERTICAL JOINTS. COLOR OF THE SEALANT SHALL MATCH COLOR OF EXIST. BRICK.



4 A6.03 Roof Equipment Curb Detail

3" = 1'-0"



5 A6.03 Equipment Curb Detail

3" = 1'-0"

Date	12/20/22
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MICHAEL J. McGOVERN, R.A.
Title REGISTERED ARCHITECT License No. 022257-1

Revisions:

1 08/02/23 ISSUE FOR RE-BID

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NYSED PROJECT # 66-07-01-03-0-004-033

DETAILS

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

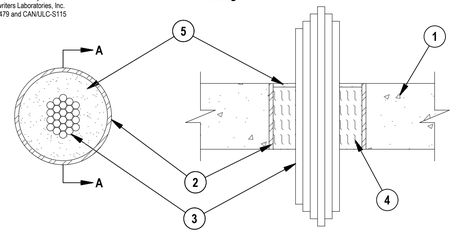
File No. 109285A601

A6.03

System No. C-AJ-3180

F Rating - 3 Hr
T Rating = 0 Hr

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m3) concrete floor or min 4-3/4 in. (121 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in.(152 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Cables — Aggregate cross-sectional area of cables in opening to be max 45 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of metallic conductor or fiber optic cable may be used:
   A. Max 500 kcmil single copper connector power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket.
   B. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material.
   C. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) insulation and PVC jacket.
   D. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. (13 mm).
   E. Max 3/C copper conductor No. 12 AWG with bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable.
   F. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket.
   G. RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of ½ in. (13 mm)
   H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.
4. Packing Material — Min 4-1/4 in. (108 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.
5. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6.4 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant.

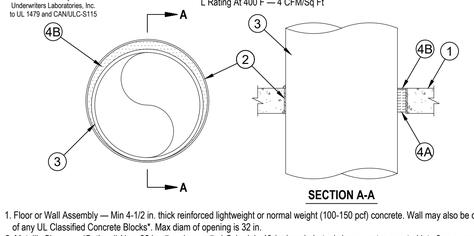
*Bearing the UL Classification Mark

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.

System No. C-AJ-1226

F Rating — 3 Hr T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/Sq Ft
L Rating At 400 F — 4 CFM/Sq Ft

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in.
2. Metallic Sleeve — (Optional) Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. above floor or beyond both surfaces of wall.

2A. Sheet Metal Sleeve — (Optional) Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.

2B. Sheet Metal Sleeve — (Optional) - Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.

3. Through-Penetrant — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:
   A. Steel Pipe — Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit — Nom 6 in. diam (or smaller) steel conduit.
   F. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT).
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

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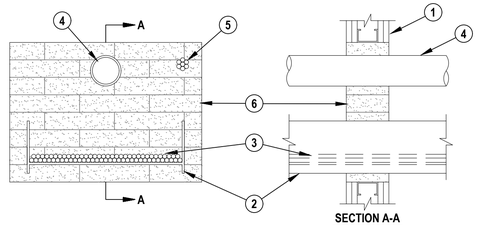
System No. W-L-8013

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — 5 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F — 2 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — 5 CFM/sq ft
	L Rating At 400 F — 2 CFM/sq ft



SECTION A-A

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. (51 mm) by 4 in. (102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. Additional studs installed to completely frame the opening.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (1219 mm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max area of opening is 352 sq in. (2271 sq cm) with max dimension of 22 in. (559 mm) wide.
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Cable Tray* — Max 18 in. (457 mm) wide by max 6 in. (152 mm) deep open-ladder or solid-back cable tray with channel-shaped side rails formed of 0.065 in. (1.65 mm) thick aluminum or 0.060 in. (1.52 mm) thick steel and with 1-1/2 in. (38 mm) wide by 1 in. (25 mm) channel shape rungs spaced 9 in. (229 mm) OC or a 0.029 in. (0.74 mm) thick steel solid back, respectively. One cable tray to be installed in the opening. The max annular space between the cable tray and the periphery of the opening shall be min 1 in. (25 mm) to max 7 in. (178 mm) Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables — Aggregate cross-sectional area of cables in cable tray to be max 30 percent of the cross-sectional area of the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:
   A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and PVC jacket.
   B. 100 pair - No. 24 AWG cable with PVC insulation and jacket.
   C. 1/C, 750 kcmil (or smaller) with PVC insulation and jacket.
4. Through-Penetrants — One or more pipe or tube to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacings between the pipes are maintained. The space between the pipe or tube and the periphery of the opening shall be min 1-1/2 in. (38 mm) to max 9-1/4 in. (235 mm). Pipe or tube to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of non-metallic or metallic pipes, or tubes may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Max 3 in. (76 mm) diam Schedule 40 solid core PVC pipe (or smaller) for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. Steel Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.
   D. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
   E. Copper Tube — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.

4A. Pipe Covering — (Not Shown) Nom 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (min 3.5 pcf) (56kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
See Pipe and Equipment Covering and Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 may be used.

5. Cables — Max 1-1/2 in. (38 mm) diam tight bundle of cables installed within the opening and rigidly supported on both surfaces of wall. The space between the cables and periphery of the opening shall range from 1-3/16 in. (30.2 mm) min to a max of 1-1/2 in. (38 mm). Any combination of the following types and sizes of cables may be used:
   A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
   B. 25 pair — No. 24 AWG cable with PVC insulation and jacket.
   C. Type R GU/S9 coaxial cable with PVC outer jacket.
   D. 24 fiber optic cable with PVC sub unit and outer jacket.
6. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* — Fire Blocks For walls incorporating max 3-5/8 in. (92 mm) steel studs or max 2 (51 mm) by 4 in. (102 mm) wood studs, fire block installed with 5 in. (127 mm) dimension projecting through and centered in opening. For walls constructed of larger steel or wood studs, fire block installed with long dimension passing through and centered in opening. Blocks may or may not be cut flush with both surfaces of wall. When multiple layers of gypsum board are used, blocks may be recessed 1/2 in. (13 mm) from surface of wall. Blocks to be firmly packed in opening. Either one or a combination of the block types specified below may be used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS 657 Fire Block or CFS-BL Firestop Block
   B. Fill, Void or Cavity Material* — Sealant or Putty - Fill material to be forced into interstices of cables, between cables and cable trays, around each penetrant and where obvious voids are observed to max extent possible on both surfaces of the penetration.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant, FS-ONE MAX Intumescent Sealant, CP 618 Putty Stick or CP620 Fire Foam

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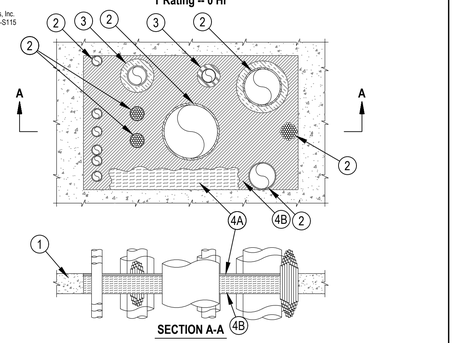
System No. C-AJ-8143

F Rating — 2 Hr
T Rating — 0 Hr

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor. Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max size of opening is 1440 in.2 (9,290 cm2) with a max dimension of 48 in. (1219 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through-Penetrant — One cable tray and one or more pipes, tubes or cable bundles may be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and the types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces are maintained. The annular space between cable tray and all other penetrants shall be min 3 in. (76 mm). The annular space between individual cables and cable bundles shall be a min 1/2 in. (13 mm). The annular space between individual cables and cable bundles and other penetrants shall be a min 1/2 in. (13 mm) except that a min 2 in. (51 mm) shall be maintained between the cables and copper pipes and tubes greater than a nom 3 in. (76 mm) diam and steel and iron pipes and conduits greater than a nom 4 in. (102 mm) diam. The annular space between metallic pipes, conduit and tubes and insulated pipes and tubes shall be a min 2 in. (51 mm). The annular space between nom 3 in (76mm) diam (and smaller) copper pipes and tubes and between nom 4 in (102mm) diam (and smaller) steel and iron pipes and conduits shall be min 1/2 in. (13 mm). The annular space between nom 2 in. (51 mm) diam (and smaller) metallic pipes and conduits shall be min 0 in. (point contact). The annular space between insulated penetrants or the cable tray and the periphery of opening shall be min 1/2 in. (13 mm). The annular space between all other penetrants and the periphery of opening shall be min 0 in. (point contact). A max annular space in the system shall be 12 in. (305 mm). Penetrants to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of penetrants may be used.
   A. Metallic Pipes — The following types of metallic pipes, tubes or conduits may be used:
      1. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
      2. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
      3. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
      4. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.
      5. Conduit — Nom 4 in. (102 mm) diam (or smaller) electric metallic tubing (EMT) or nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
   B. Cables Bundles — Max 4 in. (102 mm) diam tightly bundled cables. Any combination of the following types and sizes of cables may be used:
      1. Max 500 kcmil single copper or aluminum conductor power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket.
      2. Max 300 pair No. 24 AWG copper conductor telecommunication cables with PVC insulation and jacket material.
      3. Max 7/C copper conductor No. 12 AWG multi-conductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
      4. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in.
      5. Max 3/C No. 12 AWG steel clad cable with copper conductors and PVC insulation material.
   C. Individual Cables — Any of the following types and sizes of individual (non-bundled) cables may be used:
      1. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TECK 90 cable.
      2. Through Penetrating Product* — Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category.
      See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.
      3. Max 500 kcmil single copper or aluminum conductor power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket.
      4. Max 300 pair No. 24 AWG copper conductor telecommunication cables with PVC insulation and jacket material.
      5. Max 7/C copper conductor No. 12 AWG multi-conductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
      6. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in.
      7. Max 3/C No. 12 AWG steel clad cable with copper conductors and PVC insulation material.
      8. Max 4C/750 kcmil (or smaller) aluminum or copper conductor metal clad cable with aluminum or steel armor, with or without PVC jacket.
   D. Cable Tray* — (Not Shown) — Max 24 in. (610 mm) wide by 6 in. (152 mm) deep open-ladder steel or aluminum cable tray. Aggregate cross-sectional area of cable tray to be max 40 percent of the cross-sectional area of the cable tray based on a max 3 in. cable loading depth. Any combination of the types and sizes of cables described in Item 2B may be used. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Pipe Insulation — (Optional) - Pipes and tubes of the sizes noted below may be provided with one of the following types of pipe insulations::
   A. Pipe Covering* — Nom 1-1/2 in. (38 mm) thick (or thinner) hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket for pipes with a nom diam of 8 in. (203 mm) (or smaller) or tubes with a nom diam of 4 in. (102 mm) (or smaller). Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
   See Pipe and Equipment Covering - Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   B. Pipe Covering* — Nom 2 in. (51 mm) thick (or thinner) hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket for pipes or tubes with a nom diam of 2 in. (51 mm) (or smaller). Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
   See Pipe and Equipment Covering - Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   C. Tube Insulation-Plastics+ — Nom 1 in. (25 mm) thick (or thinner) acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing for pipes or tubes with a nom diam of 2 in. (51 mm) (or smaller).
   See Plastics (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of 4 pcf (64 kg/m³) mineral wool batt insulation tightly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material - Sealant* — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus flush with the top surface of the floor or both surfaces of the wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant

*Bearing the UL Classification Mark

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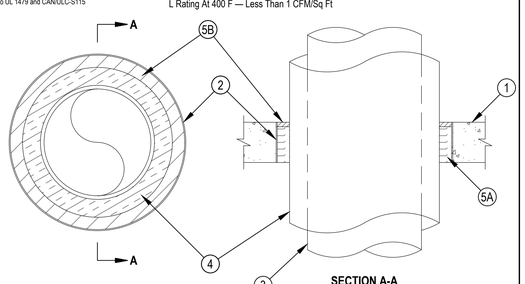
System No. C-AJ-5091

F Rating — 2 Hr
T Ratings — 0 and 1 Hr (See Items 2 and 4)
L Rating At Ambient — 4 CFM/Sq Ft
L Rating At 400 F — Less Than 1 CFM/Sq Ft

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 29 in. (737 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve — (Optional) — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall. If the steel sleeve extends beyond the top surface of the floor or both surfaces of the wall, the T Rating of the firestop system is 0 hr.

2A. Sheet Metal Sleeve — (Optional) - Max 6 in. (152 mm) diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.

2B. Sheet Metal Sleeve — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.

3. Through Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
4. Pipe Covering — Min 1/2 in. (13 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min 1/2 in. (13 mm) to max 12 in. (305 mm). When thickness of pipe covering is less than 2 in. (51 mm), the T Rating for the firestop system is 0 hr.
   See Pipe Equipment Covering — Materials — (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4A. Pipe Covering — (Not Shown) — As an alternate to Item 4, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf or 224 kg/m³) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. The annular space shall be min 1/2 in. (13 mm) to max 12 in. (305 mm).

5. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

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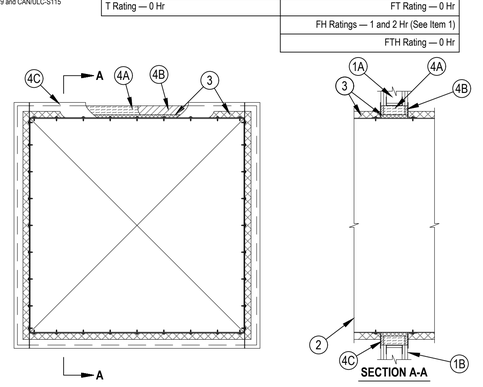
System No. W-L-7156

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Rating — 0 Hr



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members shall be used to completely frame around opening.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual U300, U400 or V400 Wall and Partition Design. Max size of opening is 210 sq in. (1355 cm²) with a max width of 14-1/2 in. (368 mm) for wood studs. Max size of opening is 76.2 sq ft. (7 m²) with a max width of 105-1/2 in. (2.7 m) for steel studs.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall in which it is installed.
2. Steel Duct — Max 100 by 100 in. (2.5 by 2.5 m) steel duct to be installed within the framed opening. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. Steel duct to be rigidly supported on both sides of wall assembly.
3. Batts and Blankets* — Nom 1-1/2 or 2 in. (38 or 51 mm) thick glass fiber batt or blanket (min 3/4 pcf or 12 kg/m³) jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed minimum 50% such that the annular space within the firestop system shall be min 1/2 in. (13 mm) to max 2 in. (51 mm).
   See Batts and Blankets (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 3-5/8 (92 mm) or 4-7/8 in. (124 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening a max of 1 in. (25 mm) from each of steel duct and spaced a max of 6 in. (152 mm) OC. When max duct dimension does not exceed 48 in. (122 cm) and duct area does not exceed 1300 in² (8387 cm²), angles may be min No. 18 gauge galv steel. Angles attached to steel duct on both sides of wall with min No. 10 by 1/2 in. (13 mm) long steel sheet metal screws located a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. When max 1-1/2 in. (38 mm) thick insulation is used, steel angles are optional for those sides of duct that do not exceed the dimension specified in Table below, dependent on packing material and annular space as specified.

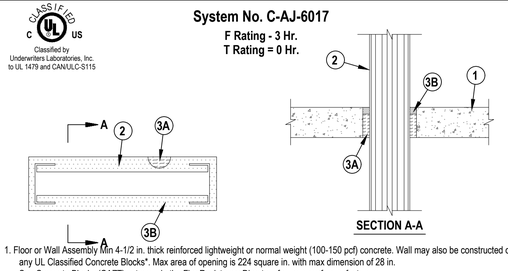
*Bearing the UL Classification Mark

Max Duct Dimension	Duct Thickness	Annular Space	Packing Material	Angle (Item 3C) Required
24 in. (610 mm)	24 ga or heavier	1/2 in. min to 1 in. max (13 to 25 mm)	Item 3A1	No

System No. C-AJ-6017

F Rating - 3 Hr.
T Rating = 0 Hr.

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

1. Floor or Wall Assembly Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 224 square in. with max dimension of 28 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Busway+ Nominal 26 in. wide (or smaller) by 6 in. deep "I" shaped steel enclosure containing factory mounted aluminum bars rated for 600 V, 4000 A. One busway to be installed within the opening. the annular space between the flange tip of the busway and the periphery of the opening shall be 1 in. The annular space between the web of the busway and the periphery of the opening shall be 2 in. Busway to be ridged supported on both sides of floor and wall assembly. The busway shall bear the UL Listing Mark and shall be installed in accordance with all provisions of Article 364 of the National Electrical Code, NFPA No. 70.
3. Firestop System The firestop system shall consist of the following:
   A. Packing Material Min 3-1/2 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* -- Sealant Min 1 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – FS-ONE Sealant

+Bearing the UL Listing Mark *Bearing UL Classification Mark

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FIRESTOPPING NOTES:

1. FIRESTOPPING ASSEMBLIES SHOWN ON THIS SHEET REPRESENT VARIOUS RATED ASSEMBLIES THAT MAY BE REQUIRED FOR THIS PROJECT. ADDITIONAL CONDITIONS AND ASSEMBLIES MAY EXIST AND THE CONTRACTOR SHALL REFER TO SPECIFICATION SECTION **078443 - FIRESTOPPING** FOR ADDITIONAL INFORMATION AND THE SELECTED MANUFACTURER FOR ADDITIONAL ASSEMBLY TYPES.
2. FIRESTOPPING DETAILS WERE OBTAINED FROM AND REPRODUCED BY HILTI, INC. COURTESY OF UNDERWRITERS LABORATORIES, INC. (UL) AND ARE SHOW AS THE BASIS OF DESIGN. USE OF THESE DETAILS AND REFERENCE TO HILTI, INC. PRODUCTS OR SYSTEMS DOES NOT PRECLUDE THE USE OF OTHER PRODUCTS THAT ARE SUBMITTED AND APPROVED AS EQUAL.
3. REFER TO CODE REVIEW PLANS CA0.01 - CA0.03 FOR REQUIRED FIRE RATINGS. PROVIDE APPROPRIATE FIRESTOPPING FOR FIRE RATING AS PER FIRESTOPPING DETAILS AND SPECIFICATIONS.

Date	12/20/22
Checked	TT
Drawn	BP

MICHAEL J. McGOVERN, R.A.
License No. 022257-1
Title REGISTERED ARCHITECT

Revisions:

#	08/02/23 ISSUE FOR RE-BID

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NYSED PROJECT # 66-07-01-03-0-004-033

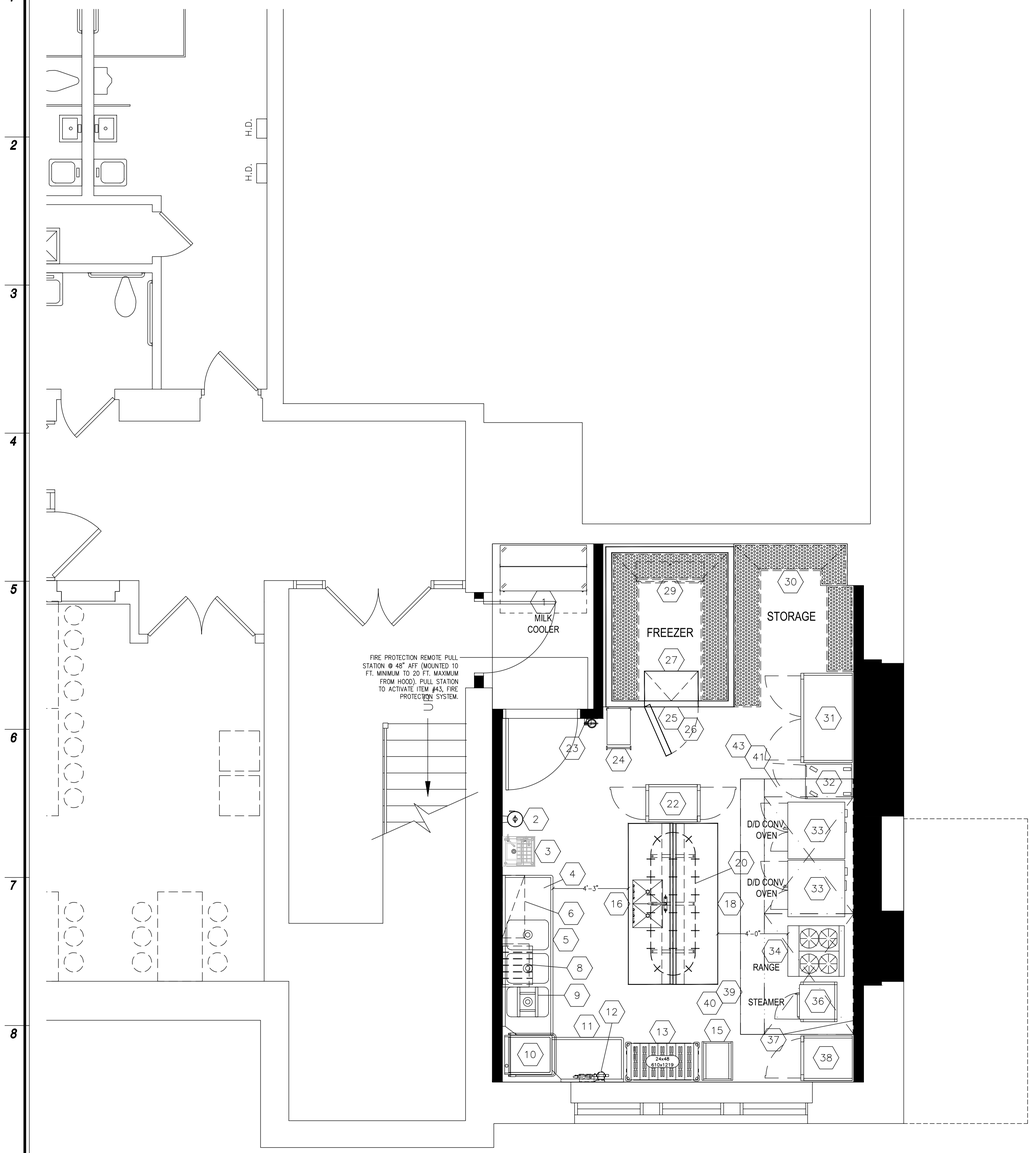
FIRESTOPPING DETAILS

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 1092858A01

A8.01



FOOD SERVICE EQUIPMENT PLAN
SCALE: 1/4"=1'-0"

GENERAL CONTRACTOR NOTES:

1. UNLESS OTHERWISE INDICATED, KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) IS A SUBCONTRACTOR TO THE GENERAL CONTRACTOR.
2. GENERAL CONTRACTOR TO COORDINATE FINAL LOCATION OF CONDENSING UNITS WITH KITCHEN EQUIPMENT CONTRACTOR, ARCHITECT AND OWNER.
3. GENERAL CONTRACTOR TO VERIFY WITH ARCHITECT AND STRUCTURAL ENGINEER THAT THE ROOF WILL SUPPORT THE CONDENSING UNITS IN THE FINAL LOCATIONS.
4. REFRIGERATION SIZING & ITS REFRIGERANT LINE RUNS ARE BASED ON A MAXIMUM HORIZONTAL LINE RUN OF 65'-0" (65 FEET) AND A VERTICAL LINE RUN OF 35'-0" (35 FEET).
5. IF THE CONDENSING UNITS ARE LOCATED MORE THAN 100'-0" AWAY FROM THE WALK-IN BOX, GENERAL CONTRACTOR TO NOTIFY KITCHEN EQUIPMENT CONTRACTOR PRIOR TO INSTALLATION OF ROOF CURBS, PITCH POCKETS AND CONDENSING UNITS.
6. IF WALLS ARE FIRE RATED, GENERAL CONTRACTOR TO USE METAL STUDS FOR WALL BLOCKING IN PLACE OF PLYWOOD.

GENERAL MECHANICAL NOTES:

1. ROUGH-INS SHOWN ON THE FOOD SERVICE DRAWINGS ARE FOR EQUIPMENT BEING SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR ONLY. ADDITIONAL ROUGH-INS SHOWN OR NOT SHOWN ON THESE DRAWINGS FOR EQUIPMENT BEING RELOCATED, RE-USED OR SUPPLIED BY OTHERS WILL HAVE TO BE VERIFIED BY GENERAL CONTRACTOR PRIOR TO ROUGH-INS BEING INSTALLED.
2. THE MECHANICAL PLANS, IF APPLICABLE, ARE PREPARED AS AN ACCOMMODATION AND GUIDE ONLY, TO INDICATE MECHANICAL REQUIREMENTS NECESSARY TO OPERATE THE EQUIPMENT. DEVIATIONS FROM THE MECHANICAL WORK SHOWN ON THESE PLANS AND EXECUTION OF SUCH WORK IS WITHOUT RESPONSIBILITY OF RAYMOND/ RAYMOND ASSOCIATES. DATA ON THIS SHEET IS TO BE REVIEWED BY OWNER AND/OR ARCHITECT AND IS TO BE INCORPORATED INTO THE BUILDING MECHANICAL PLANS IN ACCORDANCE WITH LOCAL CODES AT THE SITE.
3. OWNER AND/OR ARCHITECT IS TO SUBMIT THIS PLAN SET TO LOCAL HEALTH DEPARTMENT FOR APPROVAL UNLESS OTHERWISE SPECIFIED.
4. ALL EQUIPMENT DESIGNED AND SPECIFIED, PER THIS SET OF PLANS, BY RAYMOND/ RAYMOND ASSOCIATES, HAS THE UNDERWRITERS' LABORATORIES AND NATIONAL SANITATION FOUNDATION SEALS OF APPROVAL. AND IS TO BE FURNISHED AS SUCH BY THE KITCHEN EQUIPMENT CONTRACTOR.
5. KITCHEN EQUIPMENT CONTRACTOR TO SET IN PLACE, EQUIPMENT AT THE SITE IN ACCORDANCE WITH THESE PLANS AND TERMS OF CONTRACT WITH OWNER.
6. ALL PLUMBING, ELECTRICAL AND VENTILATION WORK, INCLUDING "ROUGH-INS, INTERCONNECTIONS BETWEEN COUNTERS, CONTROLS, SWITCHES, ETC..." AND "FINAL CONNECTIONS" TO THE EQUIPMENT, IS TO BE PERFORMED BY APPROPRIATE TRADES. IT IS NOT PART OF THE KITCHEN EQUIPMENT CONTRACTORS SCOPE OF WORK UNLESS OTHERWISE SPECIFIED.
7. TO EXPEDITE AND INSURE PROPER INSTALLATION OF COOKING EQUIPMENT, IT IS RECOMMENDED THAT "ALL FINAL CONNECTIONS" ARE TO BE PERFORMED BY APPROPRIATE TRADES AT THE SAME TIME THE KITCHEN EQUIPMENT CONTRACTOR IS SETTING THE EQUIPMENT IN PLACE.

ELECTRICAL CONTRACTOR NOTES:

1. ELECTRICAL ROUGH-INS SHOWN ON THE FOOD SERVICE DRAWINGS ARE "POINT OF CONNECTION" OR "CONNECTED LOAD" DRAWINGS ONLY. REFER TO ENGINEERING DRAWINGS FOR FURTHER DETAILS & INFORMATION.
2. FURNISH & INSTALL REQUIRED CONVENIENCE RECEPTACLES AS PER LOCAL CODE HAVING JURISDICTION AND PER OWNERS REQUESTS/ NEEDS.
3. VERIFY IF CONVENIENCE RECEPTACLES ARE TO BE GFCI PER LOCAL CODE HAVING JURISDICTION.
4. MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
5. FLOOR MOUNTED DEVICES ARE TO BE MOUNTED WITH A 5 3/4" MAXIMUM HEIGHT TO TOP OF BOX.
6. FURNISH & INSTALL ALL RECEPTACLES, J-BOXES, SWITCHES, INTER-WIRING, DISCONNECT SWITCHES, MOTOR STARTERS AND/OR TRANSFORMERS OR ANY OTHER ELECTRICAL DEVICE REQUIRED TO MAKE EQUIPMENT OPERATIONAL. THIS IS NOT PART OF THE KITCHEN EQUIPMENT CONTRACTORS SCOPE OF WORK UNLESS OTHERWISE SPECIFIED.
7. ALL POWER CONNECTION POINTS UNDER EXHAUST HOODS ARE TO BE SHUT DOWN UPON FIRE SUPPRESSION SYSTEM ACTIVATION PER NFPA 96. FURNISH & INSTALL SHUNT-TRIP BREAKERS FOR THESE CIRCUITS.
8. VERIFY, FURNISH AND INSTALL REQUIRED ELECTRICAL ROUGH-INS FOR ALL EQUIPMENT BEING SUPPLIED.

PLUMBING CONTRACTOR NOTES:

1. PLUMBING ROUGH-INS SHOWN ON THE FOOD SERVICE DRAWINGS ARE "POINT OF CONNECTION" OR "CONNECTED LOAD" DRAWINGS ONLY. REFER TO ENGINEERING DRAWINGS FOR FURTHER DETAILS & INFORMATION.
2. FURNISH & INSTALL SHUT-OFF VALVES ON THE INLET SIDE OF THE COLD & HOT WATER LINES SERVING EACH PIECE OF EQUIPMENT.
3. IF WATER PRESSURE AT THE EQUIPMENT AREA EXCEEDS 50 POUNDS FLOW PRESSURE OWNER OR HIS CONTRACTOR MUST INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT WATER & COLD WATER SUPPLY LINES SERVICING THE AREA.
4. FLOW PRESSURE TO DISHWASHER (OR ITS AUXILIARY HOT WATER BOOSTER HEATER IF ONE IS USED) MUST NOT EXCEED 20 POUNDS.
5. OWNER OR THEIR CONTRACTOR MUST PROVIDE AN ADEQUATE SUPPLY OF 110° F HOT WATER, MINIMUM, TO ALL COOKING EQUIPMENT, DISHWASHER, BOOSTER HEATER, WORK SINKS, HAND SINKS, ETC.
6. IF WATER EXCEEDS TEN GRAINS OF HARDNESS, EXCESSIVE LIME, IRON, ALKALINE, ETC... CONDITIONS ARE PRESENT, PROPER WATER CONDITIONING EQUIPMENT MUST BE INSTALLED ON THE MAIN WATER LINES SERVING THIS FOOD SERVICE FACILITY. ALL WATER CONDITIONING EQUIPMENT SHALL BE FURNISHED, INSTALLED & MAINTAINED BY OTHERS.
7. USING PVC PIPING FOR DRAIN LINES FROM EQUIPMENT THAT DISCHARGES HOT WATER SUCH AS STEAMERS & DISHWASHERS MAY CAUSE THE P.V.C. PIPING TO SOFTEN OR CRACK. IT IS RECOMMENDED THAT METAL (COPPER OR GALVANIZED) PIPING BE USED.
8. CHECK WITH LOCAL CODES TO DETERMINE WHAT EQUIPMENT IS TO BE PIPED THROUGH A GREASE TRAP. EQUIPMENT NOTED ON FOOD SERVICE CONTRACT DRAWINGS ARE REQUIRED/ RECOMMENDED AND SHOULD BE VERIFIED FOR COMPLIANCE.
9. FURNISH & INSTALL GREASE TRAP(S) AS REQUIRED OR AS INDICATED ON ENGINEERING CONTRACT DOCUMENTS.
10. FURNISH & INSTALL GAS SHUT-OFF VALVE IN GAS MAIN FEEDING ALL COOKING EQUIPMENT PRIOR TO ANY TEES OR GAS LOOP FEEDING COOKING EQUIPMENT. GAS SHUT-OFF VALVE IS RECOMMENDED TO BE INSTALLED IN ACCESSIBLE CEILING SPACE OR BELOW FLOOR WITH ACCESS TO VALVE.
11. FURNISH & INSTALL FLOOR DRAINS AND/OR FLOOR SINKS AS PER LOCAL CODE HAVING JURISDICTION AND OWNERS REQUEST.
12. REVIEW ALL CATALOG DATA PROVIDED AS PART OF THE FOOD SERVICE CONTRACT DOCUMENTS TO ESTABLISH THE NECESSARY GAS PRESSURE TO THE KITCHEN EQUIPMENT.
13. IF GAS PRESSURE ON MAIN LINE FEEDING KITCHEN EQUIPMENT EXCEEDS 14" W.C. FURNISH & INSTALL GAS PRESSURE REDUCING VALVE ON MAIN GAS LINE, SO THAT THE PRESSURE IS EQUAL TO 14" W.C. EXCESSIVE GAS PRESSURE TO THE EQUIPMENT CAN DAMAGE THE EQUIPMENT AND CAUSE PERSONAL INJURY.
14. FURNISH & INSTALL ALL WATER LINES, DRAIN LINES, GAS LINES, MANIFOLDS, SHUT-OFF/GATE VALVES, PRESSURE REDUCING VALVES, BACKFLOW PREVENTERS, VACUUM BREAKERS, ETC. OR ANY OTHER PLUMBING DEVICE REQUIRED TO MAKE EQUIPMENT OPERATIONAL. THIS IS NOT PART OF THE KITCHEN EQUIPMENT CONTRACTORS SCOPE OF WORK UNLESS OTHERWISE SPECIFIED.
15. EXTEND ALL WATER LINES, DRAIN LINES & ASSOCIATED VALVES FOR DROP-IN OR BUILT-IN EQUIPMENT WITHIN COUNTERS TO WORKING SIDE FOR EASE OF ACCESSIBILITY & USE.
16. FURNISH & INSTALL INTERCONNECTIONS BETWEEN BOOSTER HEATER & DISHWASHER AS WELL AS GENERATOR & STEAM EQUIPMENT.
17. VERIFY, FURNISH & INSTALL REQUIRED PLUMBING ROUGH-INS FOR ALL EQUIPMENT BEING SUPPLIED.

Date	12/20/22
Checked	RRA
Drawn	BJF

MICHAEL J. McGOVERN, R.A.
License No. 022257-1
Title REGISTERED ARCHITECT

Revisions:
1 08/02/23 ISSUE FOR RE-BID

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NYSED PROJECT # 66-07-01-03-0-004-033

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252 Main Street, Goshen, New York 10924 | t. 845-615-0350 | f. 845-615-0351

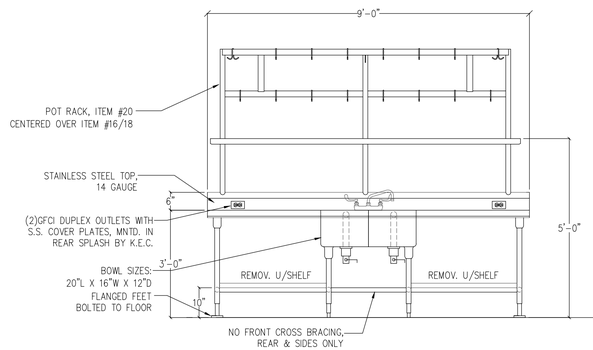
FOOD SERVICE EQUIPMENT PLAN
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85
File No. —

FS.1

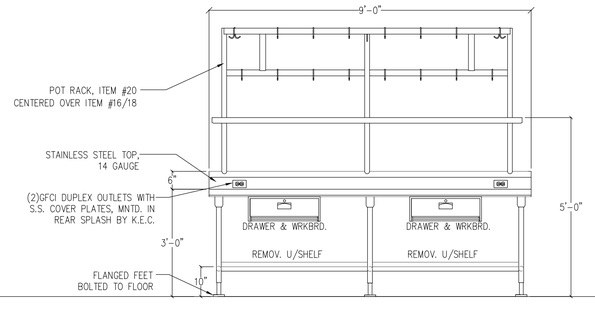
EQUIPMENT SCHEDULE

ITEM NO	EQUIPMENT CATEGORY	QTY	HOT WATER SIZE (IN)	COLD WATER SIZE (IN)	DIRECT DRAIN SIZE (IN)	INDIR DRAIN SIZE (IN)	GAS SIZE (IN)	MBTUH	HP	KW	AMPS	PLUG	DIRECT	VOLTS	PHASE	NEMA	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS
1	MILK COOLER	1									2.2	X		120	1	5-15P	BEVERAGE-AIR	SM58HC-S	
2	EYE WASH STATION, WALL MNTD.	1	1/2	1/2	1-1/4												GUARDIAN	G1750P	
3	HAND SINK W/ INTEGRAL UTILITY	1	1/2	1/2		1-1/2											BSI, LLC	HSIUS	
						1-1/2													
4	S.S. CHEMICAL CABINET	1															IMC/TEDDY	CUSTOM	
5	3-COMPARTMENT SINK, POTWASH	1	1/2	1/2		1-1/2											IMC/TEDDY	SCS-34-2028-MOD	
			1/2	1/2		1-1/2													
						1-1/2													
6	STORAGE SYSTEM, WALL MNTD.	1															EAGLE GROUP/ METAL MASTERS	WAL-STOR	
7	SPARE NUMBER	-																	
8	RACK SHELF, WALL MNTD.	1															NEW AGE	53082	
9	S.S. REMOV. RACK GUIDE	1															IMC/TEDDY	CUSTOM	
10	WAREWASHER, DOOR TYPE, VENTLESS	1		1/2		1-1/2			1.0		49.3		X	208	3		JACKSON WWS	DYNASTAR HH-E (VER)	C.W. WATER TEMP. 40°-90°
11	CLEAN DISH TABLE	1															IMC/TEDDY	SCDT-48	
12	FILTER SYSTEM FOR ITEM #10	1		3/4													EVERPURE	EV9797-22	
13	RACKS, DRYING	1															METRO	MAX4-PR48VX4	
14	SPARE NUMBER	-																	
15	RACK, PAN	1															NEW AGE	1331	
16	PREP. TABLE, 2-COMPARTMENT	1	1/2	1/2		1-1/2					12.0	X		120	1	5-15R	IMC/TEDDY	SCS-30-1620-36RL	
						1-1/2													
17	SPARE NUMBER	-															IMC/TEDDY		
18	WORK TABLE	1									12.0	X		120	1	5-15R	IMC/TEDDY	WTB-30108	
19	SPARE NUMBER	-																	
20	POT RACK W/ SHELF, TABLE MNTD.	1															IMC/TEDDY	PRT-3-2496	
21	SPARE NUMBER	-																	
22	REFRIGERATOR, PASS-THRU	1							0.25		7.3	X		120	1	5-15P	UTILITY REFRIGERATOR	PT-R-25-SS-2S-2S-D	
23	FIRE EXTINGUISHER, WALL MNTD.	1															CAPTIVE AIRE	K-CLASS	
24	CART, UTILITY	2															NEW AGE	1440	
25	WALK-IN FREEZER	1									15.0		X	120	1		NORLAKE	CUSTOM	
26	REFRIGERATION TO ITEM #25	1									9.2		X	208	3		RDT- POLARCRAFT	PCL030ZCT3A	COMPRESSOR UNIT
						3/4					10.1		X	208	1		RDT- POLARCRAFT	BEL0080	EVAPORTATOR COIL
27	SAFETY FLOORING, FULLY WELDED	LOT															HCH SALES & MARKETING	PROTECT-ALL	
28	SPARE NUMBER	-																	
29	STORAGE SHELVING, STATIONARY, 18"W	LOT															FERMOD	6611/R1	
30	STORAGE SHELVING, STATIONARY, 18"W	LOT															FERMOD	6611/R1	
31	REFRIGERATOR, REACH-IN	1							0.5		12.9	X		120	1	5-20P	UTILITY REFRIGERATOR	R-60-SS-4S-D	
32	HOLDING CABINET, HEATED	1								2.2	16.7	X		120	1	5-20P	F.W.E.	HLC-1826-8-8	
33	OVEN, CONVECTION, GAS	2					3/4	120			9.8	X		120	1	5-15P	GARLAND	MCO-GS-20-ESS	
											9.8	X		120	1	5-15P			
34	RANGE, HEAVY DUTY, GAS	1					1	184			0.1	X		120	1	5-15P	GARLAND	MST44R-E	
35	SPARE NUMBER	-																	
36	STEAMER, ATMOSPHERIC	1		3/4		3/4	1/2	60			1.0	X		120	1	5-15P	ACCUTEMP PRODUCTS	N61201E DBL	
				3/4		3/4	1/2	60			1.0	X		120	1	5-15P			
37	S.S. WALL PANEL(S), 172"L	LOT															CAPTIVE AIRE	CUSTOM	
38	REFRIGERATOR, REACH-IN	1							0.25		7.3	X		120	1	5-15P	UTILITY REFRIGERATOR	R-30-SS-2S-D	
39	EXHAUST HOOD, TYPE I	1	ALL DATA ON FANS, DUCTS, POWER, SWITCHES, ETC... BY M.E.P. 2,600 C.F.M.														CAPTIVE AIRE	CUSTOM	
40	SUPPLY PLENUM, MAKE-UP AIR	1	ALL DATA ON FANS, DUCTS, POWER, SWITCHES, ETC... BY M.E.P. 2,175 C.F.M.														CAPTIVE AIRE	CUSTOM	
41	EXHAUST HOOD, CONTROL PANEL	1									15.0		X	120	1		CAPTIVE AIRE	CUSTOM	
42	SPARE NUMBER	-																	
43	FIRE PROTECTION SYSTEM	1									15.0		X	120	1		CAPTIVE AIRE	UL-300 (R-102)	



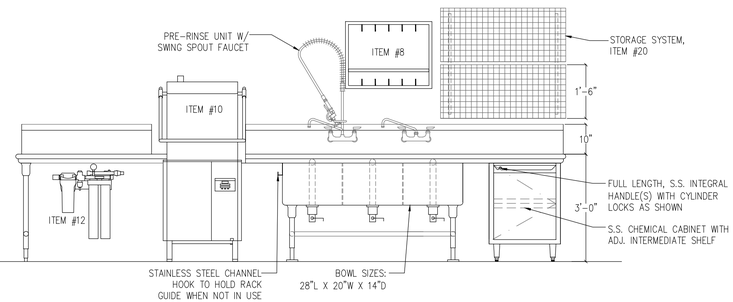
ELEVATION OF ITEM #16

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



ELEVATION OF ITEM #18

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



ELEVATION OF ITEM #5

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

Date 12/20/22
Checked RRA
Drawn BJF

MICHAEL J. McGOVERN, R.A.
License No. 022257-1
Title REGISTERED ARCHITECT

Revisions:

08/02/23
1 ISSUE FOR RE-BID

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NYSED PROJECT # 66-07-01-03-0-004-033

FOOD SERVICE EQUIPMENT SCHEDULE

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. --

FS.2

HOOD INFORMATION – JOB#5699819

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	Left	6024 ND-2-PSP-F	CAPTIVEAIRE	6' 8"	450 DEG	I	MEDIUM	195	1300			4"	12"	1300	1655	-0.591"	1025	430 SS 100%	LEFT	ALONE
2	Right	6024 ND-2-PSP-F	CAPTIVEAIRE	6' 8"	450 DEG	I	MEDIUM	195	1300			4"	12"	1300	1655	-0.591"	1150	430 SS 100%	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	Left	CAPTRATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO							YES	415 LBS
2	Right	CAPTRATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	RIGHT	12"x60"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	747 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	Left	FIELD WRAPPER 18.00" HIGH FRONT, LEFT.
		BACKSPLASH 80.00" HIGH X 172.00" LONG 430 SS VERTICAL.
		STRUCTURAL FRONT PANEL.
		RISER SENSOR INSTALL 6IN PLEN.
2	Right	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT.
		STRUCTURAL FRONT PANEL.
		RISER SENSOR INSTALL 6IN PLEN.

PERFORATED SUPPLY PLENUM(S)

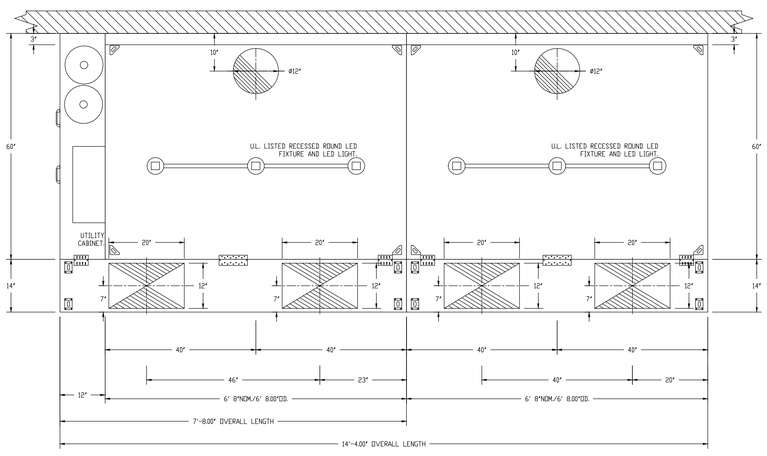
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	RISER(S) TYPE	WIDTH	LENG	DIA	CFM	SP
1	Left	Front	80"	14"	6"	MUA	12"	20"		512	0.144"
						MUA	12"	20"		512	0.144"
2	Right	Front	92"	14"	6"	MUA	12"	20"		575	0.179"
						MUA	12"	20"		575	0.179"

FIRE SYSTEM INFORMATION – JOB#5699819

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION SYSTEM	INSTALLATION LOCATION ON HOOD
1	FS	TANK FS	4.0/4.0	26	FIRE CABINET RIGHT	RIGHT, HOOD 2

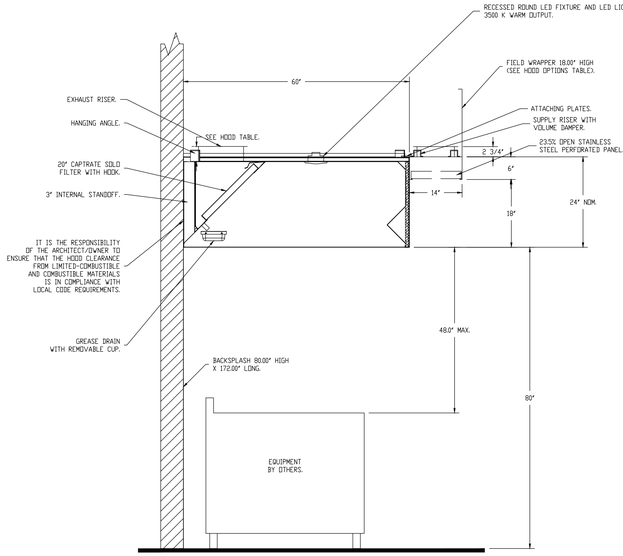
GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	FS	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS



PLAN VIEW – HOOD #1 (Left)
6' 8.00" LONG 6024ND-2-PSP-F

PLAN VIEW – HOOD #2 (Right)
6' 8.00" LONG 6024ND-2-PSP-F



SECTION VIEW – MODEL 6024ND-2-PSP-F
HOOD – #1 (Left)
HOOD – #2 (Right)

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

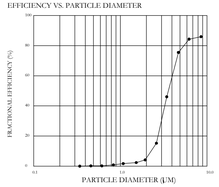
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

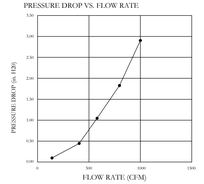
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



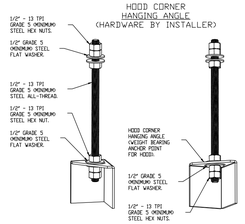
PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

VERIFY CEILING HEIGHT
/ //
Height required to verify hood will fit and to size the enclosure panels (wrappers)

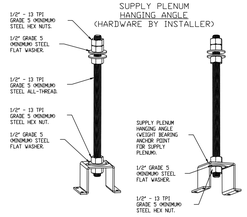
HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SUPPLY PLENUM HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

FOR QUESTIONS, CALL THE
N. NJ & S. NY
REGION 69
PHONE: (201) 669-4982
EMAIL: reg69@captiveaire.com

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

IMC 2018
SECTIONS 506, 507, & 508

Date	12/20/22
Checked	RRA
Drawn	BJF

MICHAEL J. McGOVERN, R.A.
License No. 022257-1
Title REGISTERED ARCHITECT

Revisions:

#	
1	08/02/23 ISSUE FOR RE-BID

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E-0351

LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying LLP
252 Main Street, Goshen, New York 10924 | t. 845-615-0350 | f. 845-615-0351

NYSED PROJECT # 66-07-01-03-0-004-033

FOOD SERVICE EXHAUST HOOD DATA

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. –

FS.3

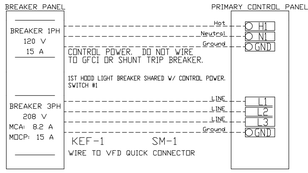
ELECTRICAL PACKAGE – JOB#5699819

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1	Controls	DCV-1111	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	3	1.500	208	6.6
				HOOD # 2	1 FAN		MUA-1	SUPPLY	3	2.000	208	6.1

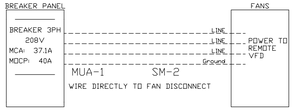
JOB NO 5699819 | MODEL NUMBER DCV-1111 | JOB NAME Mamaroneck Avenue School | DRAWN BY | DATE 12/14/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

DESCRIPTION OF OPERATION:
Demand Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

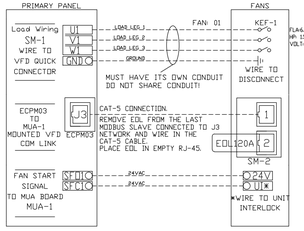
BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



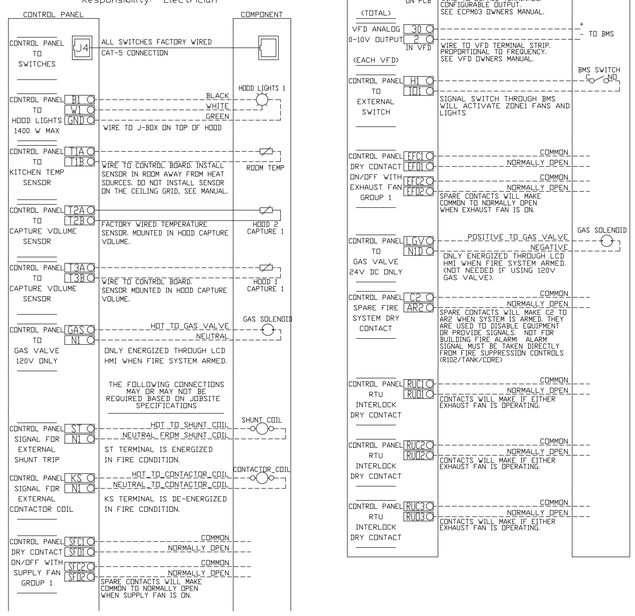
BREAKER PANEL TO FANS
Responsibility: Electrician



CONTROL PANEL TO FANS
Responsibility: Electrician



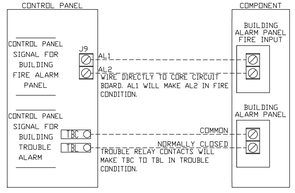
CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician



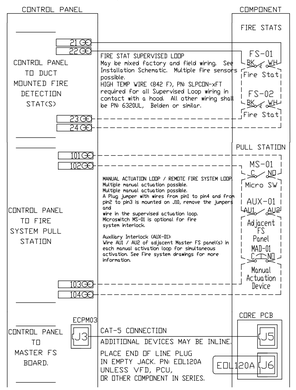
JOB NO 5699819 | MODEL NUMBER DCV-1111 | JOB NAME Mamaroneck Avenue School | DRAWN BY | DATE 12/14/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-2

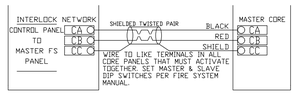
DESCRIPTION OF OPERATION:
Demand Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR



CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER





DEMAND CONTROL VENTILATION SYSTEM

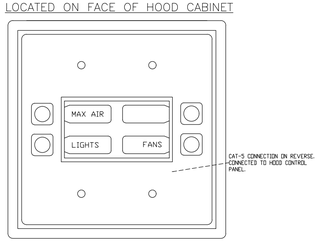
Controls shall be capable of reducing exhaust and supply airflow quantities by using a modulating speed control system. High and Low speeds shall be adjustable by variable frequency drives. A temperature switch in the exhaust duct shall control airflow set point. A MAX airflow override button shall be supplied with an adjustable timer.

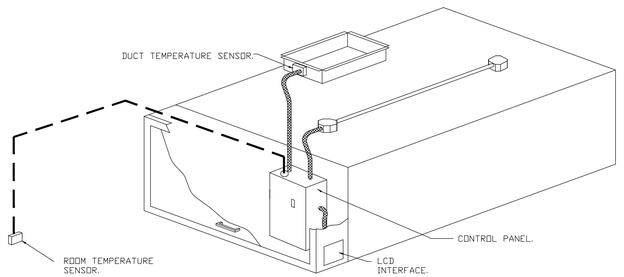
Control shall be used in kitchen exhaust applications to reduce exhaust and supply air volumes while cooking appliances are idling.

The Demand Control Ventilation System complies with IMC 507.1.1 by interlocking with cooking appliances through means of a heat sensor to automatically activate exhaust fans during cooking operations.

Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.

HOOD CONTROL PACKAGE INTERFACE with LCD Screen
LOCATED ON FACE OF HOOD CABINET





TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:
THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR

Date 12/20/22 | Checked RRA | Drawn BJF

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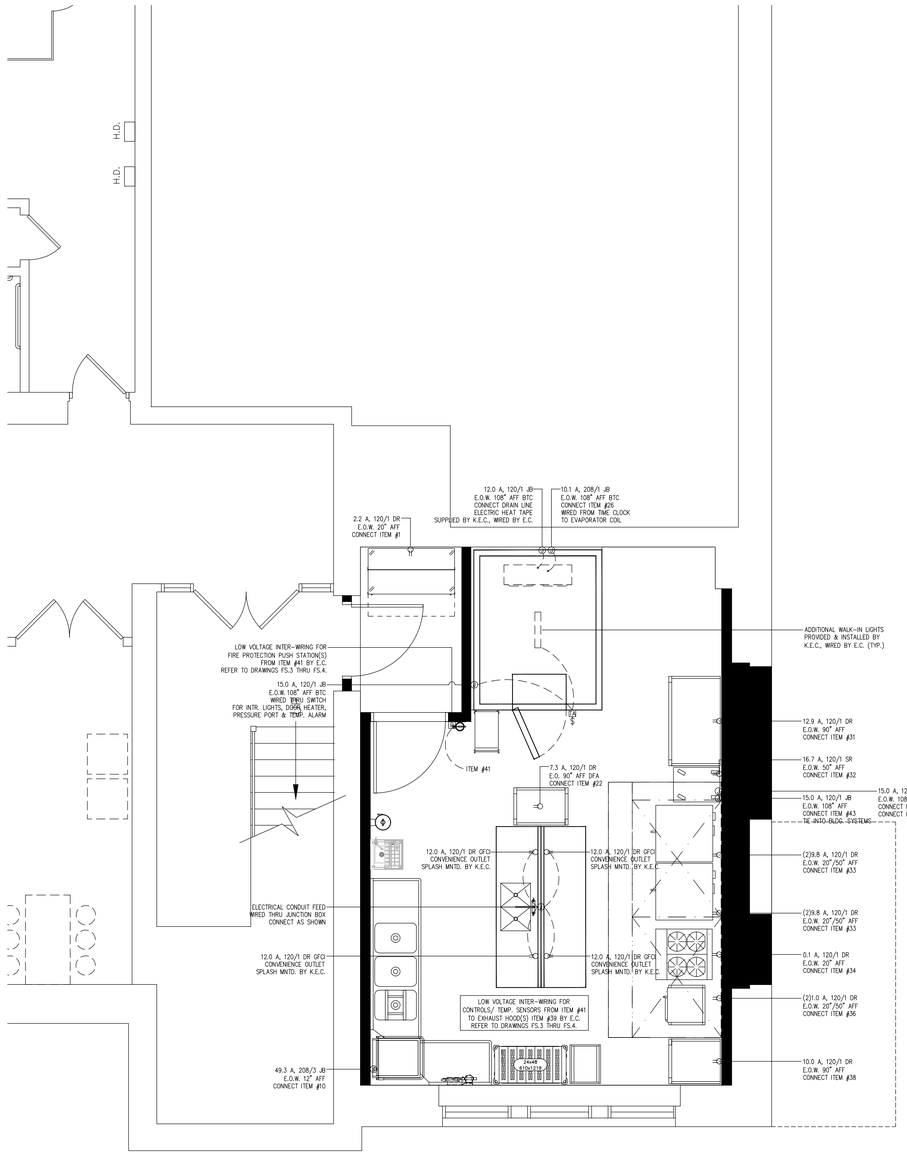
NYSED PROJECT # 66-07-01-03-0-004-033

FOOD SERVICE EXHAUST HOOD DATA
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

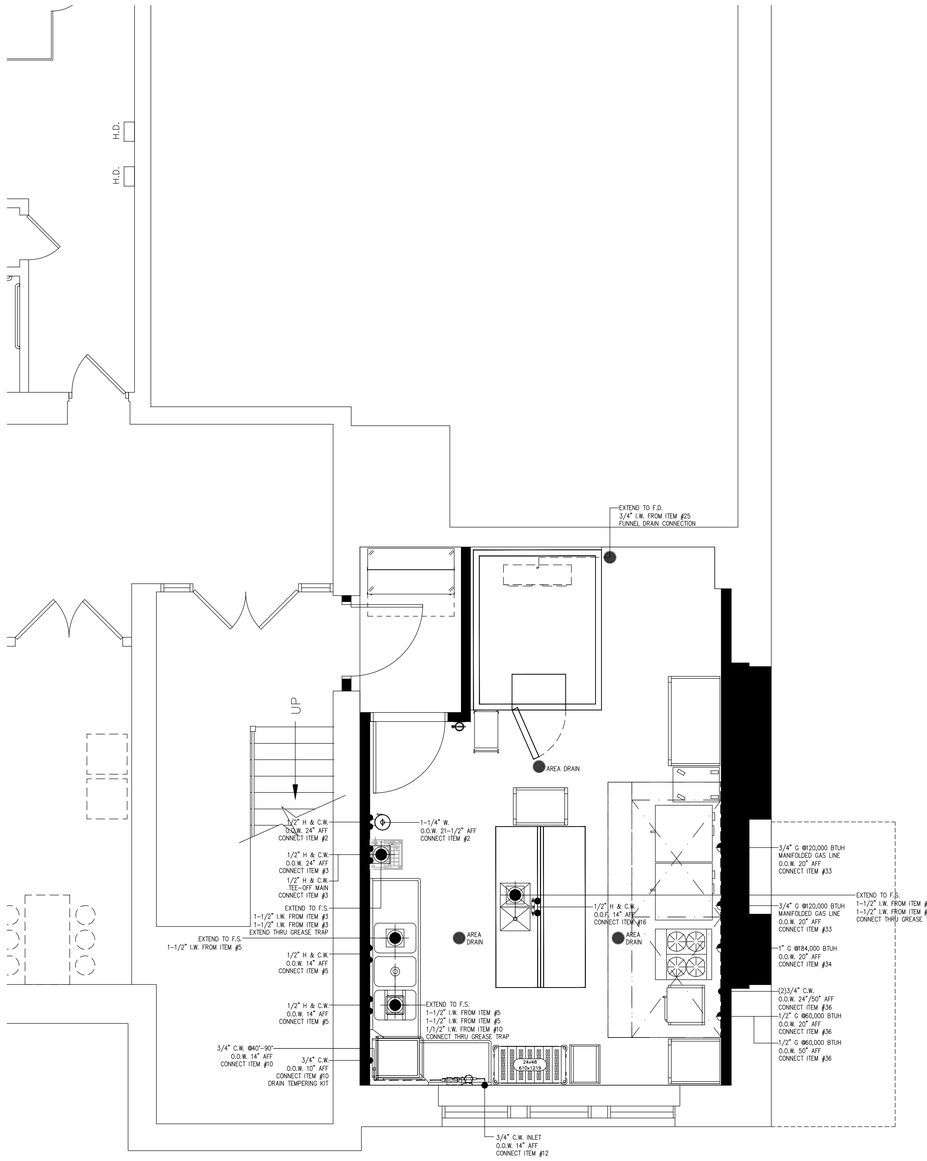
LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying LLP
252 Main Street, Goshen, New York 10924 | t. 845-615-0350 | f. 845-615-0351

Job No. 4.1092.85
File No. —

FS.4



FOOD SERVICE ELECTRICAL CONNECTIONS PLAN
SCALE: 1/4"=1'-0"



FOOD SERVICE PLUMBING CONNECTIONS PLAN
SCALE: 1/4"=1'-0"

ELECTRICAL LEGEND	
JB	JUNCTION BOX
DR	DUPLEX RECEPTACLE
SR	SIMPLEX RECEPTACLE
E.O.W.	ELECTRICAL OUT OF WALL
E.O.F.	ELECTRICAL OUT OF FLOOR
D.F.A.	DOWN FROM ABOVE
AFF	ABOVE FINISHED FLOOR
BTC	BRANCH TO CONNECTION
A	AMPS
HP	HORSEPOWER
kW	KILOWATT
E.C.	ELECTRICAL CONTRACTOR

ELECTRICAL NOTES:

1) ALL WALL OUTLETS ARE FROM AFF TO BOTTOM OF BOX.

2) E.C. TO CHECK ALL CONDITIONS AND VERIFY ALL DIMENSIONS PRIOR TO WORK.

PLUMBING LEGEND	
H.W.	HOT WATER
C.W.	COLD WATER
W	DIRECT WASTE
I.W.	INDIRECT WASTE
F.D.	FLOOR DRAIN
F.S.	FLOOR SINK
G	GAS
O.O.W.	OUT OF WALL
O.O.F.	OUT OF FLOOR
AFF	ABOVE FINISHED FLOOR
BTC	BRANCH TO CONNECTION
P.C.	PLUMBING CONTRACTOR

PLUMBING NOTES:

1) P.C. TO PROVIDE HUB DRAINS FOR ALL INDIRECT WASTE LINES AND RETAIN AIR GAPS AS REQUIRED.

2) P.C. TO CHECK ALL CONDITIONS AND VERIFY ALL DIMENSIONS PRIOR TO WORK.

Date 12/20/22
Checked RRA
Drawn BJF

MICHAEL J. McGOVERN, R.A.
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FOOD SERVICE CONNECTED LOADS
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

NYSED PROJECT # 66-07-01-03-0-004-033

Job No. 4.1092.85
File No. –

FS.5

FOOD SERVICE SPECIAL CONDITIONS PLAN
SCALE: 1/4"=1'-0"

Date	12/20/22
Checked	RRA
Drawn	BJF

MICHAEL J. McGOVERN, R.A.
License No. 022257-1
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NYSED PROJECT # 66-07-01-03-0-004-033

FOOD SERVICE SPECIAL CONDITIONS

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. —

FS.6

LAN ASSOCIATES
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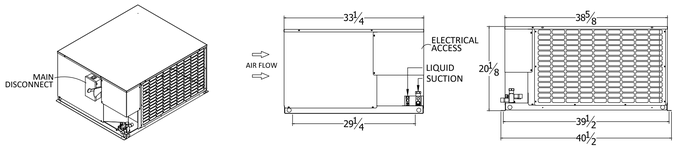
252 Main Street, Goshen, New York 10924 | t. 845-615-0350 | f. 845-615-0351

WALK-IN FREEZER

Model No. - PCL030ZCT3A
Qty. 1
Type: Outdoor Air Cooled
Voltage: 208/60/3
Refrigerant: R-448a
HP: 3.0
Weight: 250 lbs.



ENGINEERING SUMMARY

SYSTEM	FIXTURES ITEM #	FIXTURES DESCRIPTION	FIXTURES TEMP °F FIXT.	FIXTURES TEMP °F SUCT.	FIXTURES REQ'D FIXTURE BTU/H	FIXTURES REFRIG. #	CONDENSING UNIT MODEL NO.	CONDENSING UNIT H.P.	CONDENSING UNIT RATING @ 60 HZ RLA	CONDENSING UNIT RATING @ 60 HZ V	CONDENSING UNIT RATING @ 60 HZ PH	CONDENSING UNIT BTU CAP @ AMB °F	CONDENSING UNIT TYPE	EVAPORATOR COILS ITEM #	EVAPORATOR COILS MODEL NO.	EVAPORATOR COILS QTY	EVAPORATOR COILS FAN MOTORS @ 60 HZ RLA	EVAPORATOR COILS FAN MOTORS @ 60 HZ V	EVAPORATOR COILS FAN MOTORS @ 60 HZ PH	EVAPORATOR COILS HEATERS @ 60 HZ RLA	EVAPORATOR COILS HEATERS @ 60 HZ V	EVAPORATOR COILS HEATERS @ 60 HZ PH	EVAPORATOR COILS DEFR. TYPE	EVAPORATOR COILS DEFROST CLOCK	ACCESSORIES TSTAT	ACCESSORIES SOL. VALVE	ACCESSORIES EXP. V.L.V.	REFRIGERANT LINE SIZES (IN) SUCT.	REFRIGERANT LINE SIZES (IN) SUCT. LINE RISER	REFRIGERANT LINE SIZES (IN) LIQUID	REFRIGERANT LINE TYPE	REFRIGERANT LINE LINE RUN (FT)	MINIMUM CIRCUIT AMPACITY	MOPD
A	-	WALK-IN FREEZER	-10	-20	8054	448A	PCL030ZCT3A	3.0	9.2	208	3	9145	Z	-	BEL0080	1	1.0	208	1	9.1	208	1	ELEC	ECOSMART	F	F	EF	7/8	-	1/2	M	100	15.0	20

EACH CONDENSING UNIT EQUIPPED WITH:

- DEMAND DEFROST CONTROLLERS
- POWDER COATED STEEL CABINET
- CRANKCASE HEATERS
- HEAD PRESSURE CONTROL VALVE
- DUAL PRESSURE CONTROL
- LIQUID LINE DRIER & SIGHT GLASS
- SUCTION LINE FILTER
- LOW AMBIENT KIT (HEATED & INSULATED RECEIVER)
- EEV'S & SUCTION TRANSDUCERS ON COILS

ALL EVAPORATOR COILS WILL REQUIRE A HOUSE POWER SUPPLY

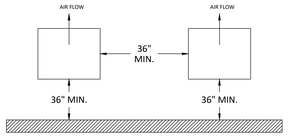
c UL us LISTED

NOTE:
IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO FOLLOW ALL APPLICABLE CODES AND CURRENT REFRIGERATION INDUSTRY STANDARDS AND PRACTICES WHEN DETERMINING LINE SIZES, AND INSTALLING AND STARTING UP RDT EQUIPMENT.

COMPRESSOR TYPE	DEFROST TYPE	LINE TYPE	EVAPORATOR ACCESSORIES
Z SCROLL	O.C. OFF CYCLE	M MAIN	EF EEV FACTORY EQUIPPED ON EVAP
H HERMETIC	ELEC ELECTRIC	B BRANCH	TF TXV FACTORY EQUIPPED ON EVAP
S SEMI-HERMETIC		T TRUNK	F FACTORY EQUIPPED ON EVAP
D DISCUS			O PROVIDED BY OTHERS
			L LOOSE (FIELD INSTALLATION)

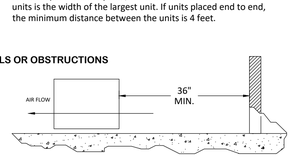
CLEARANCE REQUIREMENTS: PC SERIES (TYPICAL)

MULTIPLE UNITS



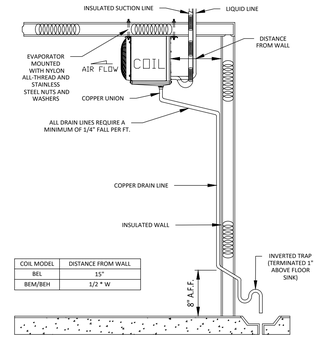
For units placed side by side, the minimum distance between units is the width of the largest unit. If units placed end to end, the minimum distance between the units is 4 feet.

WALLS OR OBSTRUCTIONS



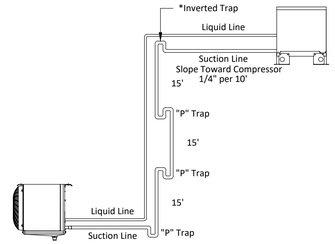
The unit should be located so that air may circulate freely and not be re-circulated. For proper air flow and access, all sides of the unit should be a minimum of "W" away from any wall or obstruction. It is preferred that this distance be increased whenever possible. Care should be taken to see that ample room is left for maintenance work through access doors and panels. Overhead obstructions are not permitted.

EVAPORATOR MOUNTING DETAIL (TYPICAL)



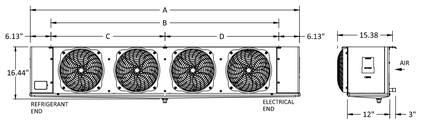
COIL MODEL	DISTANCE FROM WALL
BEL	15"
BEM/BEH	1/2 * W

SUCTION LINE VERTICAL RISE DETAIL



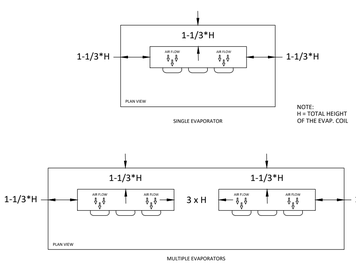
- Install trap every transition from horizontal to vertical.
- Insulate suction lines with 3/4" wall Armaflex insulation.
- All joints brazed with minimum 15% silver content brazing rod.
- Install "P" trap on suction line every 15' vertical rise.
- Not to exceed 45' vertically over all.
- *If compressor is above the evaporator, Install inverted trap on top of the rise to prevent oil from seeping down when fixture(s) is turned off.

EVAPORATOR DETAILS - MODEL BEL



ELECTRIC DEFROST	DIMENSIONS A	B	C	D	CONNECTIONS (Inches)			Approx. Net Wt.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps	Heater Amps as wired for 208-230/60/1	208-230/60/3	460/60/1
	Inches	Inches	Inches	Inches	Coil Inlet	Suction	Drain	Lbs.					
080	45-1/2	33-1/4	-	-	1/2 OD	5/8 OD	3/4 MPT	54	2	1.0	9.1	5.7	4.6

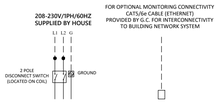
EVAPORATOR PLACEMENT & CLEARANCE REQUIREMENTS LOW PROFILE EVAPORATOR COILS (I.E. - BEL)



WIRING DIAGRAM - ECO-SMART - AKOB1EE DEMAND DEFROST CONTROLLER FOR WALK-IN FREEZER WITH ONE COIL 208-230/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW.

ITEM	DESCRIPTION	VOLTAGE
	WALK-IN FREEZER	230/1



Note: Controller provided pre-mounted to housing of evaporator assembly.

Wiring Schedule for Electrical Contractor Requirements:

PRIMARY COIL
(3) 208V (AWG SIZE ACCORDING TO HEATER LOAD AND LOCAL CODE) TO PROVIDE HOUSE POWER TO THE COIL (L1, L2 AND GROUND)

FACTORY WIRING ————————
FIELD WIRING – – – – – – – –

POLARCRAFT SERIES ENGINEERING SPECIFICATIONS

Single compressor, outdoor, air cooled. The refrigeration package shall be a pre-engineered and factory-assembled unit, trade name "Polarcraft", as manufactured by Refrigeration Design Technologies, 1808 FM Road 66, P.O. Box 622, Waxahachie, Texas 75167. Phone: (972) 937-3215; Fax: (972) 937-0970.

1. Air-Cooled Refrigeration System
The RDT UL Listed "Air-Cooled" Refrigeration system shall be housed in a weather-protected compact steel frame. The entire housing shall be powder-coated steel. The unit shall include an air-cooled aluminum fin copper tube condenser. The exterior housing shall feature a one piece grille for air flow. Lifting points shall be integrated in the framing component. Condenser fan motors shall be mounted within the enclosure. An optional hail guard is available.

Each unit shall be equipped with a high efficiency fan motor(s), sight glass, liquid filter/drier, liquid line inlet and outlet valve. Each unit shall be equipped with a head pressure regulator for low ambient conditions.

Condensing unit shall contain a scroll type compressor assembled to operate with the refrigerant specified for both medium and low temperature applications.

2. Evaporator Coils
A. Evaporator coils shall be direct expansion type fabricated of copper tubes with aluminum fins.
B. All evaporator coils shall be provided with solenoid valve, thermostatic or electronic expansion valve and thermostat.

3. Pre-Piping
All refrigerant lines shall be extended to outside of the housing in a neat and orderly manner. All tubing shall be securely supported and anchored with non-corrosive coated clamps.

All joints must be brazed.

All piping and controls shall be factory pressure-tested with dry nitrogen.

1. Control Panel
The package shall have a factory-mounted and pre-wired control panel, with main disconnect (non fused) where required, circuit breakers, contactors wired for single point power connection.

General Information
Contractors shall verify all dimensions onsite and coordinate with other trades.

General contractor shall prepare the platform, curbed openings and weatherproofing the unit after installation.

Refrigeration Contractor
All copper tubing to be refrigerant grade. A.C.R. or type "L".

Brazing should be used for all refrigerant piping. Silver solder or soft solder is not acceptable.

All piping to be pressure tested with nitrogen at 300 psi. After the condensing unit and coil have been connected the balance of the system shall be leak tested with the valves open at 200 psi.

The complete system shall be evacuated with a vacuum pump. Each unit should be charged tested and adjusted to assure operation.

Contractor should provide and install the drain-line heater in freezer. Heater shall be connected by electrical contractor. Seal all penetrations through the walk-in units with foam.

Electrical Contractor
Electrical contractor to provide power for refrigeration package and connect control and defrost system as called for in the wiring diagram.

Electrical contractor to connect drain-line heater in the freezer.

All electrical wiring and installation shall be in accordance with the wiring diagram and local codes. Seal all penetrations through the walk-in units with foam.

Plumbing Contractor
Plumbing contractor to provide copper drain lines for walk-in refrigerator and freezer, pitched 1/4" per foot of run. Trap drain-line outside of refrigerated space to avoid entrance of warm, moist air.

All plumbing installation shall be in accordance with local codes.

Date	12/20/22
Checked	RRA
Drawn	BJF

MICHAEL J. McGOVERN, R.A.
License No. 022257-1
The REGISTERED ARCHITECT

Revisions:

#	
	08/02/23 ISSUE FOR RE-BID

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NYSED PROJECT # 66-07-01-03-0-004-033

FOOD SERVICE REFRIGERATION DATA
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. —

FS.7

ABBREVIATIONS

&	=	AND	HWS	=	HOT WATER SUPPLY PIPING
@	=	AT			
ø	=	DIAMETER OR ROUND	ID	=	INSIDE DIAMETER (DIM)
			IN	=	INCH
B-#	=	BOILER	INSUL	=	INSULATION
BC	=	BLOWER COIL UNIT			
BLDG	=	BUILDING	MAX	=	MAXIMUM
			MECH	=	MECHANICAL
CD	=	CONDENSATE DRAIN	MFR	=	MANUFACTURER
CLG	=	CEILING	MIN	=	MINIMUM
COL	=	COLUMN			
CONSTR	=	CONSTRUCTION			
CONT	=	CONTINUOUS	N.A.	=	NOT APPLICABLE
CORR	=	CORRIDOR	NTS	=	NOT TO SCALE
CTR	=	CENTER			
CW	=	COLD WATER	OA	=	OUTSIDE AIR
			OC	=	ON CENTER
DCW	=	DOMESTIC COLD WATER	OD	=	OUTSIDE DIAMETER
DET	=	DETAIL			
DHW	=	DOMESTIC HOT WATER	R	=	RISER
DHWR	=	DOMESTIC HOT WATER RETURN	RA	=	RETURN AIR
DIA	=	DIAMETER	RAD	=	RADIUS
DIM	=	DIMENSION	RM	=	ROOM
DN	=	DOWN	RTU	=	ROOF TOP HV/HVAC UNIT
DOAS	=	DEDICATED OUTDOOR AIR UNIT			
DWG	=	DRAWING	SA	=	SUPPLY AIR
			SAD	=	SUPPLY AIR DIFFUSER
EAR	=	EXHAUST AIR REGISTER	SD	=	SMOKE DETECTOR
EF	=	EXHAUST FAN	SECT	=	SECTION
(E)/EXIST	=	EXISTING	SPEC	=	SPECIFICATION
			STD	=	STANDARD
FAI	=	FRESH AIR INTAKE			
FC	=	FLEXIBLE CONNECTION	TG	=	TRANSFER AIR GRILLE
FCU	=	FAN COIL UNIT	TYP	=	TYPICAL
FD	=	FIRE DAMPER			
			VD	=	VOLUME DAMPER
GA	=	GAUGE	VG	=	GAS VENT LINE
GALV	=	GALVANIZED	VFD	=	VARIABLE FREQUENCY DRIVE
GPM	=	GALLONS PER MINUTE	VIF	=	VERIFY IN FIELD
HVAC	=	HEAT/VENT/AIR COND	W/	=	WITH
HW	=	HOT WATER	W/O	=	WITHOUT
HWH	=	HOT WATER HEATER	WT	=	WEIGHT
HWR	=	HOT WATER RETURN PIPING			

GENERAL CONSTRUCTION NOTES

1. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE CUTTING OF ALL WALLS, FLOORS, CEILING ETC. FOR ALL PIPE & DUCT PENETRATIONS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING HOLES IN ROOF FOR EQUIPMENT AND DUCTWORK AND PROVIDING ROOF/FLOOR/WALL STRUCTURAL SUPPORT. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING, ROOFING, DUNNAGE.
2. MECHANICAL CONTRACTOR IS REQUIRED TO PATCH (TO MATCH EXISTING), IMMEDIATELY AFTER REMOVAL, ALL WALL, FLOOR & CLG. OPENINGS WHERE EXISTING PIPE, PNEUMATIC LINES, DUCT, UNIT VENTILLATORS, BASEBOARDS, ETC. ARE BEING REMOVED. SEAL OPENING WITH 3 HOUR FIRE BARRIER CAULK. SEE GENERAL LOCATIONS ON MECHANICAL DEMOLITION PLAN.
3. MECHANICAL CONTRACTOR TO REFER TO MECHANICAL DRAWINGS FOR PAINTING OF DUCTWORK, FURNISHING AND INSTALLING ACCESS PANELS, CUTOUT LOCATIONS, ETC.
4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING & RELOCATING EXISTING ELECTRICAL, FIRE ALARM & COMMUNICATION DEVICES TO ACCOMMODATE THE INSTALLATION OF NEW UNITS, PIPING & DUCTWORK. CHECK IN FIELD.
5. GENERAL CONTRACTOR SHALL REMOVE EXISTING CEILING TILES AND CEILING GRID TO ACCOMMODATE THE INSTALLATION OF NEW UNITS, PIPING & DUCTWORK. RE-INSTALL ALL CEILING TILES BACK TO MATCH EXISTING. REMOVE & REPLACE ALL DAMAGED TILES & CEILING GRID. CHECK IN FIELD.
6. GENERAL CONTRACTOR SHALL PROVIDE ROOFING PATCH WORK AND TIE-IN FOR ALL NEW PLUMBING, MECHANICAL AND ELECTRICAL EQUIPMENT AND CONDUIT THAT PENETRATES THE EXISTING ROOF.
7. MECHANICAL CONTRACTOR TO PATCH FLOORS & WALLS WHERE EXISTING THERMOSTAT & PNEUMATIC TUBING IS BEING REMOVED W/ NON-SHRINK GROUT. PAINT TO MATCH EXISTING.
8. MECHANICAL CONTRACTOR IS RESPONSIBLE TO DEMOLISH EXISTING HOUSEKEEPING CONCRETE PADS FOR EXISTING MECHANICAL EQUIPMENT WHICH ARE TO BE DEMOLISHED AND NOT TO BE USED.
9. MECHANICAL CONTRACTOR IS RESPONSIBLE TO CORE DRILL ALL WALLS, FLOORS, CEILING ETC. FOR ALL PIPE CONDUIT, ETC. PENETRATIONS. SEAL OPENING WITH 3HRS FIRE BARRIER CAULK.
10. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE EXTENT AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS OR COMMENCING WORK.
11. CONTRACTORS SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. THE CONTRACTORS SHALL REPORT ANY DISCREPANCIES, AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
12. THE CONTRACTORS SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES AND INSPECTIONS PRIOR TO COMMENCING WORK. UPON COMPLETION OF WORK THE CONTRACTOR SHALL SECURE CERTIFICATE OF OCCUPANCY.
13. CONTRACTORS SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OF SITE IN AN APPROVED MANNER.
14. DOWN-TIME FOR THE TIE-IN OR SWITCHOVER SHALL BE KEPT TO A MINIMUM. COORDINATE SCHEDULE WITH THE OWNER.

SYMBOLS

NOT TO SCALE

- = SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND CFM INDICATED ON PLANS
- = RETURN AIR REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
- = EXHAUST AIR REGISTER (EAR); GRAVITY RELIEF GRILLE (GRG) WITH NECK SIZE AND CFM INDICATED ON PLANS
- = SUPPLY AIR WALL REGISTER/GRILLE (SAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
- = RETURN AIR WALL REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLAN
- = POINT OF CONNECTION OF NEW PIPING/DUCTWORK TO EXISTING
- = POINT OF DISCONNECTION OF NEW PIPING/DUCTWORK TO EXISTING
- OR W" X D" = INDICATES HARD DUCT WITH INTERNAL LINING (DIMENSIONS ARE INSIDE CLEAR WIDTH & DEPTH)
- OR W" X D" = INDICATES HARD DUCT (DIMENSIONS ARE INSIDE CLEAR WIDTH & DEPTH)
- Ø" = INDICATES FLEXIBLE DUCT (DIMENSIONS ARE INSIDE CLEAR DIAMETER; LENGTH NOT TO EXCEED FOUR (4) FEET)
- = DUCT TURN UP (SUPPLY, RETURN, EXHAUST)
- = DUCT TURN DOWN (SUPPLY, RETURN, EXHAUST)
- DSD/AD = DUCT SMOKE DETECTOR WITH ACCESS DOOR
- FD/AD = FIRE DAMPER WITH ACCESS DOOR
- VD = VOLUME DAMPER
- = INDICATES NEW WALL MOUNTED THERMOSTAT.
- = TWO-WAY CONTROL VALVE
- OR = BALL VALVE
- = 3-WAY CONTROL VALVE
- = UNION
- = INDICATES EXISTING TO BE REMOVED
- = 6" HIGH CONCRETE HOUSEKEEPING PAD (TYP. FOR ALL FLOOR MOUNTED EQUIPMENT)
- GAS = GAS PIPING
- = REFRIGERANT PIPING
- = MATCH LINE
- = PHASE SEPARATION LINE
- = HOT WATER SUPPLY
- = HOT WATER RETURN
- = CHILLED WATER SUPPLY
- = CHILLED WATER RETURN
- = CONDENSATE DRAIN
- = PIPE TURN UP
- = PIPE TURN DOWN
- NORTH = PROJECT NORTH
- CLOSET 101 = ROOM NAME / ROOM NUMBER
- # = REVISION
- NUMBER B / SHEET A-9 = ELEVATION
- NUMBER B / SHEET A-9 = SECTION/DETAIL
- U = UNDERCUT DOOR (1/2 INCH)

H.V.A.C. GENERAL NOTES

1. PROCURE AND PAY ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT THE WORK SHOWN. OBTAIN AND PAY FOR ALL FEES.
2. COMPLY WITH ALL FEDERAL, STATE AND MUNICIPAL LAWS AND CODES, ORDINANCES, RULES AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED.
3. GUARANTEE H.V.A.C. SYSTEMS FOR A PERIOD OF ONE YEAR FROM OWNER'S ACCEPTANCE TO BE FREE FROM DEFECTS AND REPAIR OR REPLACE, AT NO COST TO OWNER, FAILURES OR DEFECTS.
4. H.V.A.C. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL HIS DEBRIS.
5. BALANCE AIR AND WATER SYSTEMS TO QUANTITIES INDICATED. CONTRACTOR TO SUBMIT TWO (2) SETS OF AIR, WATER AND UNIT BALANCING REPORT TO ARCH./ENGR./OWNER PRIOR TO FINAL ACCEPTANCE OF THE SYSTEM.
6. BIDDERS FOR THIS WORK SHALL VISIT THE PREMISES AND CAREFULLY EXAMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING BIDS. NOT ALL EXISTING CONDITIONS HAVE BEEN IDENTIFIED ON DRAWINGS. CONTRACTOR SHALL NOTIFY ARCH. & ENGR. OF ALL DISCREPANCIES PRIOR TO SUBMITTING BID.
7. ALL BIDDERS SHALL ALSO FAMILIARIZE THEMSELVES WITH THE MEANS OF ENTRANCE AND EXIT AT THE PROPERTY AND ALL OTHER INFORMATION NECESSARY TO PROPERLY CARRY OUT THE WORK.
8. THE CONTRACTOR SHALL, WITH THE APPROVAL OF THE ENGINEER AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE ALL NECESSARY CHANGES OR MODIFICATIONS TO LOCATIONS AS MAY BE NECESSARY TO SUIT REQUIREMENTS AND CONDITIONS FOR THE PROPER AND CONVENIENTLY ACCESSIBLE LOCATIONS OF ALL PARTS OF EACH SYSTEM.
9. SMALL DETAILS ARE NOT USUALLY SHOWN OR SPECIFIED BUT ALL MATERIALS & COMPONENTS NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OR WORK SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST.
10. THE CONTRACTOR SHALL NOTE THAT ALL SERVICE CONNECTIONS MAY NOT BE SHOWN IN TRUE POSITIONS. EACH BIDDER IS CAUTIONED, THEREFORE, TO VERIFY SAME WITH FIELD CONDITIONS.
11. CONTRACTOR SHALL CHECK FOR INTERFERENCE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR INSTALLATION OF PIPING AND DUCTWORK.
12. IF AN ITEM OF EQUIPMENT OTHER THAN THE ITEM(S) SPECIFIED IS APPROVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COST ARISING OUT OF ADDITIONAL OR CHANGED GENERAL CONSTRUCTION AND MECHANICAL WORK REQUIRED TO ACCOMMODATE THE SUBSTITUTED EQUIPMENT.
13. ALL EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS AND RECOMMENDATIONS.
14. CONTRACTOR TO SUBMIT TWO (2) SETS OF DUCT AIR LEAKAGE TESTING (DALT) REPORT FOR REVIEW.
15. PROVIDE ONE SET OF SPARE FILTERS FOR ALL INSTALLED HV/HVAC UNITS.
16. PROVIDE TWO YEAR MAINTENANCE SERVICE FOR ALL INSTALLED HV/HVAC/MECHANICAL SYSTEMS. THIS INCLUDES A MINIMUM OF THREE PERIODIC SERVICE VISITS TO INSPECT, TEST & CHECK ALL COMPONENTS OF HVAC/HV UNITS AND ANY ADDITIONAL VISITS REQUIRED IF ANY HVAC/HV UNIT FAILS. ALL NECESSARY BELT ALIGNMENTS, PROPER OPERATIONS OF ALL DAMPERS, ETC IS INCLUDED IN THIS SCOPE OF WORK.
17. PROVIDE FIRE DAMPERS/ACCESS DOORS AT ALL DUCT PENETRATIONS THROUGH CORRIDORS, SLABS AND OTHER RATED PARTITIONS, IRRESPECTIVE OF WHETHER IT IS INDICATED ON THE DRAWINGS OR NOT.
18. PROVIDE FIRE STOPPING AROUND ALL OPENINGS FOR DUCT, PIPING, CONDUIT, ETC. PENETRATIONS THROUGH CORRIDORS, SLABS AND OTHER RATED PARTITIONS.
19. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND RESTORATION OF AREAS OF MECHANICAL REMOVALS.
20. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTAINER SERVICES AND LABOR TO KEEP THE BUILDING FREE OF DEBRIS.
21. CONTRACTOR TO PROVIDE NEW WALL MOUNTED THERMOSTATS IN TAMPER PROOF ENCLOSURES FOR ALL AHU'S, RTU'S, VAV BOXES, CABINET HEATERS, UV'S FCU'S, AC UNITS, ETC. IRRESPECTIVE OF WHETHER THEY ARE INDICATED ON ALL DRAWINGS OR NOT. CONTRACTOR TO INDICATE THERMOSTAT LOCATIONS ON ALL SHOP DRAWINGS.
22. CONTRACTOR TO NOTE THAT BOTH DWGS & SPECS ARE COLLECTIVELY A PART OF BID REQUIREMENTS. IN CASE OF ANY DIFFERENCES BETWEEN VARIOUS DWGS OR BETWEEN DWGS & SPECS, THE MOST STRINGENT REQUIREMENTS WILL PREVAIL.
23. CONTRACTOR TO SUBMIT TWO (2) SETS OF OPERATION & MAINTENANCE MANUALS, INCLUDING A SUMMARY SHEET OF ALL EQUIPMENT MFRS, MODEL #s, SERIAL #s, SHOP DRAWING SUBMITTALS, WARRANTY INFORMATION, O&M MANUALS, PROJECT INFORMATION, CONTACT DETAILS & AS-BUILT DRAWINGS.
24. CONTRACTOR TO PROVIDE TWO (2) SETS AND AN ELECTRONIC COPY OF AS-BUILT DRAWINGS OF THE ENTIRE SYSTEM.
25. PROVIDE PROPER IDENTIFICATION TAGS, ARROWS, AND LABELS FOR ALL EQUIPMENT INCLUDING HVAC UNITS, VALVES, ELECTRICAL PANELS, ETC.
26. CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) TRAINING SESSIONS (TWO HOURS EACH) THAT ARE TO BE VIDEOTAPED FOR THE OWNERS USE, TO OWNER'S MAINTENANCE STAFF ON PROPER OPERATION, MAINTENANCE & COMMON TROUBLE-SHOOTING GUIDELINES.

H.V.A.C. MATERIALS

EQUIPMENT:

- REFER TO SCHEDULES FOR UNIT MANUFACTURER, SIZE, AND CAPACITY DATA.

DUCTWORK:

- INDOOR SUPPLY, RETURN AND EXHAUST DUCTWORK, EXCEPT AS INDICATED BELOW, SHALL BE GALVANIZED STEEL CONSTRUCTION. WEIGHTS AND CONSTRUCTION DETAIL SHALL BE IN ACCORDANCE WITH THE LATEST ASHRAE GUIDE AND/OR SMACNA STANDARDS.
- EXTERIOR GREASE-LADEN EXHAUST DUCTWORK: SHALL BE DOUBLE-WALLED KITCHEN GREASE DUCT WITH ZERO CLEARANCE TO COMBUSTIBLES (INTEGRAL 2-HOUR FIRE RATING). "SELKIRK" MAKE, MODEL "IPS Z3".
- INTERIOR GREASE-LADEN EXHAUST DUCTWORK: SHALL BE DOUBLE-WALLED INTERNALLY LINED RECTANGULAR DUCTWORK WITH A MINIMUM 2-HOUR FIRE-RATING.
- MAKE-UP AIR SUPPLY DUCTWORK: SHALL BE DOUBLE-WALLED INTERNALLY LINED. FINISH ON EXTERNAL SUPPLY DUCTWORK SHALL MATCH FINISH OF EXTERIOR EXHAUST DUCTWORK.
- FLEXIBLE DUCTWORK: SHALL NOT EXCEED FOUR (4) FEET IN LENGTH. FOR ANY HORIZONTAL FLEX DUCT BRANCH TO A CEILING DIFFUSER, FURNISH A 90° BRACE TO MAINTAIN A LONG RADIUS ELBOW TO THE DIFFUSER ("TITUS" MAKE, MODEL "FLEXRIGHT").
- FIRE DAMPER: "RUSKIN" MAKE, MODEL IBD23 TYPE B (BLADES OUT OF AIRSTREAM), 3 HOUR RATED (UNLESS OTHERWISE NOTED) UL-555 LABELED DAMPER WITH STANDARD FRAME OR APPROVED EQUAL. PROVIDE WITH A RETAINING ANGLE AND AN ACCESS DOOR.

PIPING:

- HOT/CHILLED WATER PIPING: SHALL BE HARD COPPER TYPE "L". WITH WROUGHT COPPER SOLDER FITTINGS (3" OR UNDER).
- GAS PIPING:
  A. SHALL BE SCHEDULE 40 BLACK IRON, WITH WELDED JOINTS AND FITTINGS.
  B. SHALL BE SCHEDULE #40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS (PIPE SIZE 2" AND SMALLER) AND WELDED FITTINGS (PIPE SIZE 2-1/2" AND LARGER)
- CONDENSATE DRAIN PIPING: SHALL BE HARD COPPER TYPE "L" WITH WROUGHT COPPER FITTINGS. OR SCHEDULE 40 PVC WITH PVC FITTINGS (PRIMED & CEMENTED).

INSULATION:

- EXTERNAL DUCT INSULATION: 1" THICK, MIN. 1.5 LB. DENSITY FLEXIBLE FIBERGLASS DUCT INSULATION WITH REINFORCED FOIL FACED FLAME RESISTANT KRAFT VAPOR BARRIER, ADHERED TO DUCT W/ SEALED LAPS AND TAPED JOINTS.
- INTERNALLY LINED DUCT: 1" THICK, MIN. 1.0 LB. DENSITY RIGID INSULATION ADHERED TO DUCT. DUCTS WIDER THAN 12" TO HAVE WELDED PINS AND WASHERS. DUCT DIMENSIONS AS INDICATED ARE CLEAR INSIDE DUCT DIMENSIONS.
  NOTES:
  1. ALL SUPPLY & RETURN AIR DUCTWORK SHALL BE INTERNALLY LINED FOR A MIN. OF 25' TO AND FROM ANY RTU OR AHU.
  2. ALL SUPPLY AIR DUCTWORK SHALL BE INTERNALLY LINED FOR A MINIMUM OF 15' DOWNSTREAM OF ALL FAN COIL UNITS, ETC.
- DUCT INSULATION NOTE: PROVIDE A MINIMUM 6" OVERLAP WHERE INTERNAL INSULATION ENDS AND EXTERNAL INSULATION BEGINS.
- ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC ("AP ARMAFLEX BLACK LAPSEAL") OR FIBERGLASS PIPE INSULATION WITH ASJ JACKET.
- FRESH AIR INTAKE AND EXPOSED DUCT: 1" THICK, MIN. 2 LB. DENSITY RIGID FIBERGLASS DUCT INSULATION WITH FOIL FACING VAPOR BARRIER FASTENED WITH WELDED CLIPS, CEMENTED JOINTS WITH ALUMINUM TAPE.
- CHW/HW/CD PIPES SHOULD BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH FACTORY APPLIED ASJ JACKET. INSTALL WITH APPROVED ADHESIVE AND STAPLES. REFER TO SPECIFICATIONS FOR INSULATION THICKNESS.

AIR DEVICES:

- SAD - TITUS MAKE, MODEL TMS
- EAR - TITUS MAKE, MODEL 23RL
- NOTES:
  1. ALL CEILING DIFFUSERS LOCATED IN ACOUSTIC CEILING GRID SHALL BE PROVIDED WITH FRAME TYPE FOR GRID MOUNTING. IF THE TILE IS SMALLER THAN TILE SIZE, THE DIFFUSER SHALL BE PROVIDED WITH FRAME TYPE FOR CEILING TYPE.
  2. ALL CEILING DIFFUSERS LOCATED IN GYPSUM BOARD AND/OR CONCEALED SPLINE CEILINGS SHALL BE PROVIDED WITH FRAME TYPE FOR SURFACE MOUNTING
  3. PROVIDE FACTORY INSTALLED 90° BLANK-OFF PLATE(S) IN ALL 2 AND 3 WAY DIFFUSERS.
  4. COLOR OF AIR OUTLETS/INLETS SHALL MATCH THE CEILING COLOR.
  5. ALL AIR OUTLETS/INLETS TOILETS, CORRIDORS, AND KITCHEN SHALL BE ALUMINUM CONSTRUCTION

ACCESS DOORS

- FURNISH AND INSTALL ACCESS DOORS AT ALL LOCATIONS WHERE VALVES, DAMPERS, CONTROLS, VENTS, DRAINS, ETC. ARE TO BE INSTALLED ABOVE OR BEHIND ANY INACCESSIBLE SURFACE (GYPSUM BOARD, CMU, ETC.), IRRESPECTIVE OF WHETHER THEY ARE INDICATED ON ALL DRAWINGS OR NOT. ACCESS DOORS SHALL BE A SUITABLE SIZE TO MAINTAIN, OPERATE, REPAIR, AND REPLACE ALL EQUIPMENT. ACCESS DOORS SHALL BE FACTORY PRIMED AND PAINTED TO MATCH THE SURFACE IN WHICH THEY ARE INSTALLED.

PIPING:

INSTALL THE FOLLOWING PIPE ATTACHMENTS:

ADJUSTABLE STEEL CLEVIS HANGERS FOR INDIVIDUAL HORIZONTAL PIPING LESS THAN 20 FEET LONG.

ADJUSTABLE ROLLER HANGERS AND SPRING HANGERS FOR INDIVIDUAL HORIZONTAL PIPING 20 FEET OR LONGER.

PIPE ROLLER: MSS SP-58, TYPE 44 FOR MULTIPLE HORIZONTAL PIPING 20 FEET OR LONGER, SUPPORTED ON A TRAPEZE.

SPRING HANGERS TO SUPPORT VERTICAL RUNS.

Date 12/20/22
Checked MAM
Drawn JPD

MICHAEL J. McGOVERN, R.A.
License No. 022257-1
Title REGISTERED ARCHITECT

Revisions:

1 08/02/23 ISSUE FOR RE-BID

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NYSED PROJECT # 66-07-01-03-0-004-033

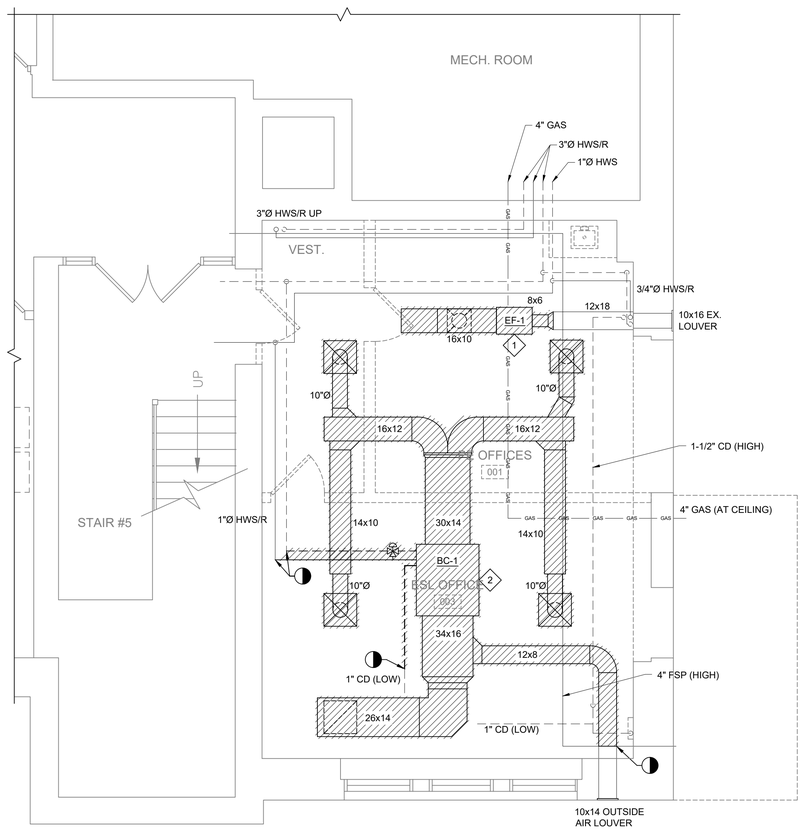
MECH NOTES, SYMBOLS & ABBREV.

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 109285M001

M0.01



Demolition Key Notes

SYMBOL INDICATES DEMOLITION KEY NOTE

1. REMOVE SUSPENDED EXHAUST FAN INCLUDING CONTROLS, HANGERS, ELECTRICAL CONNECTIONS PER LATEST NEC, AND ALL OTHER APPURTENANCES.

2. REMOVE SUSPENDED BLOWER COIL INCLUDING DUCTWORK, DIFFUSERS, HANGERS, HYDRONIC COMPONENTS INCLUDING CONTROL VALVE, ELECTRICAL CONNECTIONS PER LATEST NEC, AND ALL OTHER APPURTENANCES.

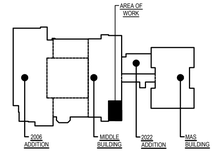
1 / M1.01 — Existing Mechanical Floor Plan w/ Demolition

1/4" = 1'-0"

PARTIAL LOWER LEVEL FLOOR PLAN

NORTH

MAMARONECK AVENUE SCHOOL



Key Plan

NOT TO SCALE

PROJECT NORTH

NYSED PROJECT # 66-07-01-03-0-004-033

Date	12/20/22
Checked	MAM
Drawn	JPD

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DEMOLITION MECHANICAL FLOOR PLANS

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 1092851M101

M1.01

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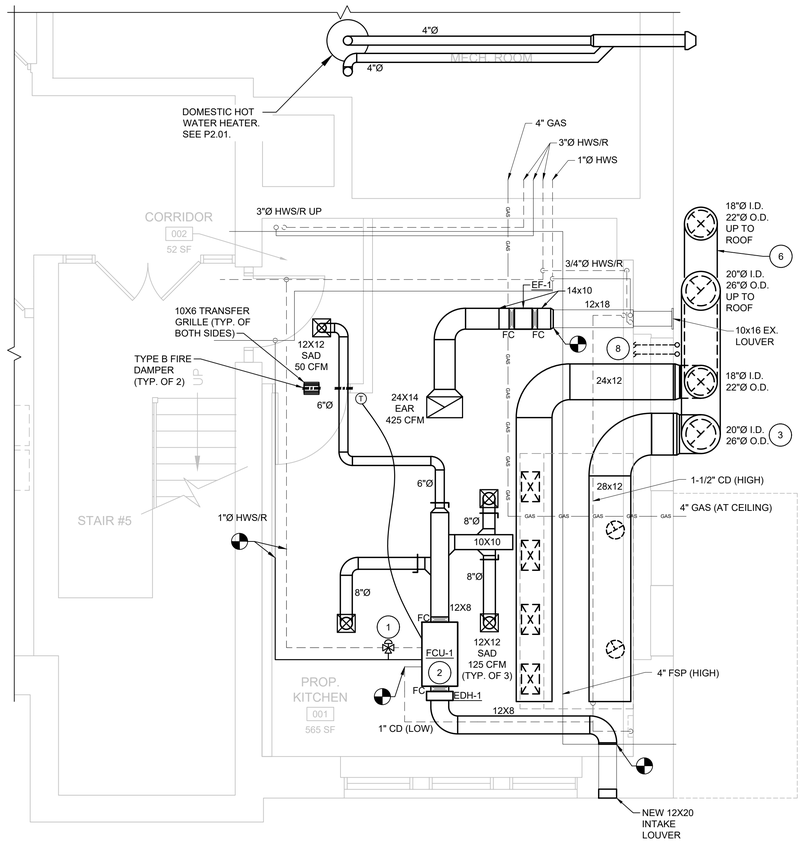
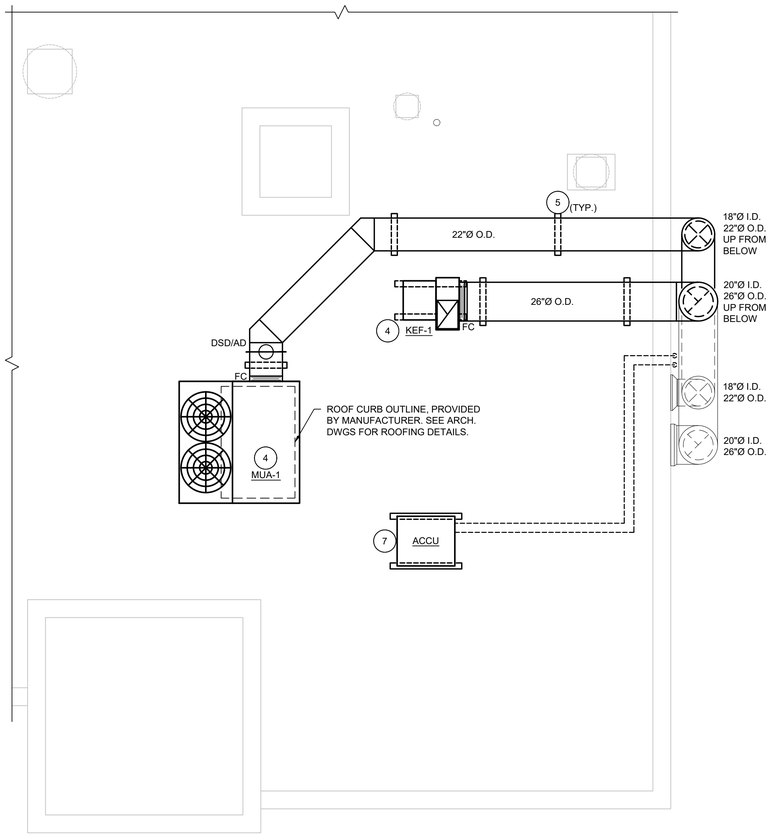


1 M2.01 — Proposed Kitchen Mechanical Floor Plan

1/4" = 1'-0" — PARTIAL LOWER LEVEL FLOOR PLAN — NORTH



2 M2.01 — Proposed Mechanical Roof Plan

1/4" = 1'-0" — PARTIAL LOWER LEVEL FLOOR PLAN — NORTH

Construction Key Notes

(#) SYMBOL INDICATES CONSTRUCTION KEY NOTE

1. NEW 3-WAY DDC CONTROL VALVE SHALL BE TIED INTO THE EXISTING BMS.
2. PROVIDE NEW FCU-1 WITH SECONDARY DRAIN PAN AND CONNECT DRAIN PAN OUTLET TO EXISTING CONDENSATE LINE. PROVIDE HANGERS & VIBRATION ISOLATORS FOR FCU-1 AND EDH-1 TO BE SUPPORTED BY THE BUILDING STRUCTURE.
3. PROVIDE DUCT MANUFACTURER'S CLEAN OUT AT BOTTOM OF DUCT.
4. REFER TO DRAWING M6.02 AND M6.03 FOR UNIT INFORMATION.
5. DUCT SUPPORTS, MAXIMUM SPACING SHALL BE 10'.
6. DUCTWORK SHALL BE ROUTED BETWEEN WINDOWS. SEE A3.01 FOR EXTERIOR ELEVATION. CUSTOM COLOR DUCTWORK TO BE SELECTED BY ARCH/ENGINEER FROM MANUFACTURER'S FULL RANGE OF COLOR DURING SUBMITTAL PHASE OF CONSTRUCTION.
7. WALK-IN FREEZER REMOTE COMPRESSOR/CONDENSER. SEE FOOD SERVICE DWG FS-7 FOR UNIT SPECIFICATIONS. REFRIGERANT PIPING TO BE ROUTED ON THE ROOF AND DOWN EXTERIOR WALL. PROVIDE PIPE COVER ON EXTERIOR WALL AND PAINT PER THE OWNER'S COLOR SELECTION.
8. WALK-IN FREEZER REFRIGERANT PIPING TO FREEZER EVAPORATOR.

General Notes

1. MECHANICAL CONTRACTOR SHALL REVIEW THE FOOD SERVICE DRAWINGS ("FS.X") AND IS RESPONSIBLE FOR ALL WORK ITEMS CALLED AS BEING BY THE MECHANICAL CONTRACTOR OR "MC" EVEN IF NOT INDICATED ON THE M2.XX DWGS.
2. REFER TO DRAWINGS M6.02 AND M6.03 FOR KEF-1 AND MUA-1 SCHEDULES.
3. REFER TO SPECIFICATION 230993 FOR EF-1 SEQUENCE OF OPERATIONS.

VENTILATION TABLE

Unit Served	Room No.	Room Name	Floor Area (Sq. Ft.)	Occupancy Classification	Required O.A. per Sq. Ft.	Required O.A. For Space	No. of People	Required O.A. per Person	Required OA For Occupants	Total Min. O.A. Required (CFM)	Zone Air Distribution Effectiveness	Zone Min. O.A. Required (CFM)	Design O.A. (CFM)	Design E.A. (CFM)
MAU-1														
	1	KITCHEN	565	KITCHEN	0.12	68	12	8	90	158	0.8	197	197	396
	2	CORRIDOR	52	CORRIDOR	0.06	3	0	0	0	3	0.8	4	4	-

MAKE-UP AIR FAN COIL UNIT SCHEDULE

(DAIKIN AS STANDARD)

TAG	AREA SERVED	CFM	MIN O.A. (CFM)	ESP (In. H_2O)	ELECTRIC PRE-HEAT DUCT HEATER						CHILLED WATER COOLING									HOT WATER HEATING							ELECTRICAL DATA			DIMENSIONS (L x W x H) (In.)	APPROX. WEIGHT (Lbs)	MODEL	MANUFACTURER	NOTES
					TAG	CAPACITY (KW)	V - Ph - Hz	MCA/MOP	CONTROLS	MANUF. & MODEL	TMBH	SMBH	EADB (°F)	EAWB (°F)	LADB (°F)	LAWB (°F)	EWT (°F)	LWT (°F)	GPM	WPD (Ft)	MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	WPD (Ft)	V - Ph - Hz	MCA	FAN HP/BHP					
FCU-1	KITCHEN #001	425	425	0.50	EDH-1	5	208 - 1 - 60	30/35	SCR W/ THERMOSTAT & SENSOR	RENEWAIRE EK-1818005SC CHR--21-1SV-N	14.3	11.6	95	75	71.4	66.6	45	55	2.9	3.28	55.1	0	112	180	160	5.9	10.14	208 - 1 - 60	3.6	0.33 / 0.09	43 x 24 x 18	193	BCHD0061	DAIKIN	SEE NOTE(S) BELOW

NOTES:
1. BASED ON 30% PROPYLENE GLYCOL IN HOT WATER SYSTEM.
2. CONNECT BOTH FCU-1 AND EDH-1 TO EXISTING BMS.

GENERAL VENTILATION EXHAUST FAN SCHEDULE

(GREENHECK AS STANDARD)

TAG	LOCATION	AREA SERVED	CFM	STATIC PRESSURE LOSS (IN)	ELECTRICAL DATA				DIMENSIONS (LxWxH) (In.)	APPROX WEIGHT (Lbs)	MODEL	MANUFACTURER	NOTES
					FLA	BHP	RPM	V / Ph / Hz					
EF-1	KITCHEN #001	KTCHEN #001	425	0.25	0.9	0.06	1,093	208 / 1 / 60	12 X 14 X 11	24	CSP-A390-VG	GREENHECK	SEE NOTE(S) BELOW

NOTES: PROVIDE BACKDRAFT DAMPER, EXHAUST LOUVER WITH BIRDSCREEN AND DISCONNECT SWITCH. TIE NEW FAN INTO EXISTING BMS..

Date	12/20/22
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MICHAEL J. McGOVERN, R.A.
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Revisions:

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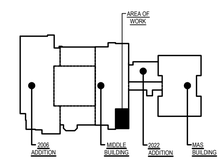
NYSED PROJECT # 66-07-01-03-0-004-033

PROPOSED KITCHEN & ROOF PLAN
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

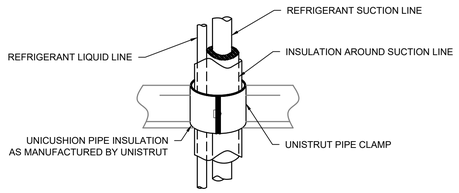
Job No. 4.1092.85
File No. 109285M201

M2.01

MAMARONECK AVENUE SCHOOL



Key Plan
NOT TO SCALE
PROJECT NORTH



NOTES:

1. LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE, BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT. PROVIDE WITH PIPE COVERS.

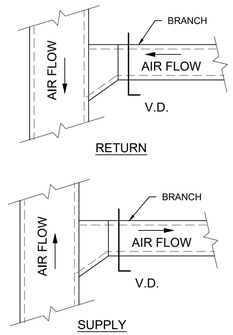
2. LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.

3. SLOPE HORIZONTAL SUCTION LIENS 1 INCH EVERY 20 FEET TOWARD THE OUTDOOR UNIT.

4. USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN TRAPS, WHERE SHORT RADIUS ELBOWS SHALL BE USED.

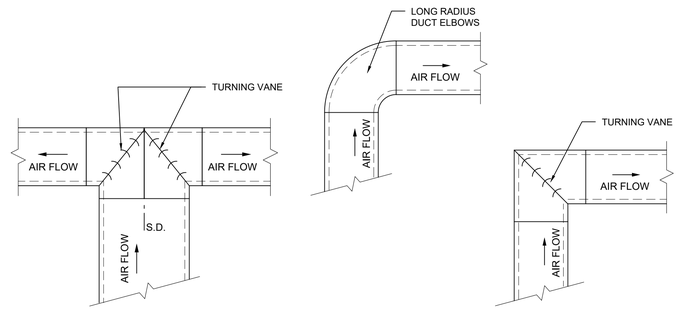
1 M6.01 Refrigerant Pipe Support Detail

N.T.S.



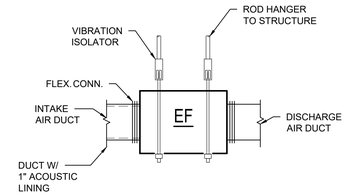
2 M6.01 Duct / Diffuser Take-Off Detail

N.T.S.



3 M6.01 Duct Turn Detail

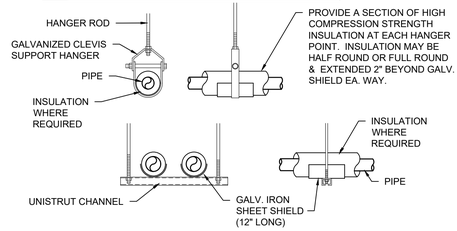
N.T.S.



4 M6.01 Inline Exhaust Fan Detail

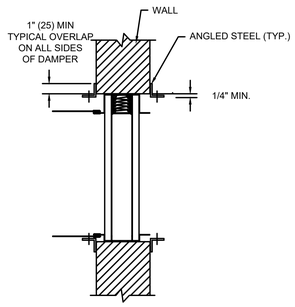
N.T.S.

NOTES:
1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.



5 M6.01 Pipe Support Details

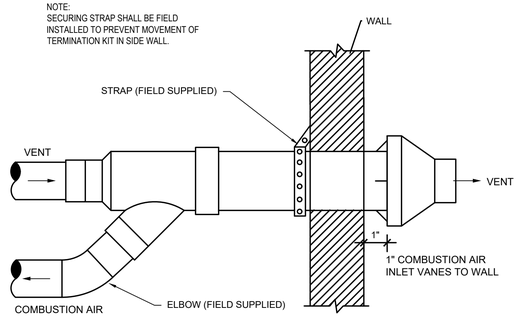
N.T.S.



6 M6.01 Typical Type "B" Fire Damper Detail

N.T.S.

NOTE:
SECURING STRAP SHALL BE FIELD INSTALLED TO PREVENT MOVEMENT OF TERMINATION KIT IN SIDE WALL.



7 M6.01 Side Wall Termination for Concentric Vent

N.T.S.

Date	12/20/22
Checked	MAM
Drawn	JPD

MICHAEL J. McGOVERN, R.A.
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NYSED PROJECT # 66-07-01-03-0-004-033

MECHANICAL DETAILS

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 109285M601

M6.01

EXHAUST FAN INFORMATION – JOB#5699819

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES	NOTES
1	KEF-1	1	USBI18DD-RM	CAPTIVEAIRE	2600	1.500	1222	ODP,PREMIUM	1.500	1.0560	3	208	6.6	1333 FPM	416	17.8	15

DOAS/RTU FAN SCHEDULE – JOB#5699819

FAN INFORMATION										ELECTRICAL INFORMATION					COOLING INFORMATION								REHEAT INFORMATION					GAS HEAT INFORMATION				
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOCP	OUTSIDE AIR		LEAVING AIR		CAPACITY		IEER	ISMRE	DISCHARGE		CAPACITY		MOISTURE REMOVAL RATE	GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	NOTES
																DB	WB	DB	WB	DP	TOTAL	SENS.			DB	WB	DESIRED	MAX					
2	MUA-1	1	CASRTU2-I.200-15-8T-DOAS	CAPTIVEAIRE	15P-2	0	2175	2175	1808	0.500	2.00	3	208	37.1A	40A	81.0°F	76.1°F	63.7°F	63.3°F	63.1°F	102.0 MBH	40.7 MBH	20.2	9.8	90.0°F	71.5°F	63.3 MBH	0.2 MBH	55.4 LBS/HR	NATURAL	186433	151011	58°F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

NOTES:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP
12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
13. FULLY MODULATING HOT GAS REHEAT
14. SIDE DISCHARGE/NO RETURN
15. UNIT TO BE INTERLOCKED WITH EXISTING BMS.

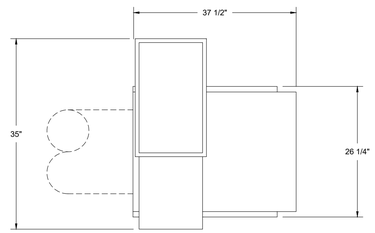
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	BI18 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 20" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER
		1	UTILITY SET GREASE CUP
		1	BI18 - 24" DISCHARGE EXTENSION
		1	BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE
		1	BI18 - INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT
		1	UTILITY SET - SPRING VIBRATION ISOLATORS - BI18 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE
		1	2 YEAR PARTS WARRANTY
2	MUA-1	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	RTU TOTAL CFM MONITORING
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	2" MERV 13 FILTERS FOR RTU2 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU2 (QTY. 4)
		1	OVERHEAT STAT
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	RTU FIXED 100% OA INTAKE CONTROL
		1	RTU2 NO RETURN - 100% OA
		1	RTU2 SIDE DISCHARGE
		1	RTU2 CURB DUCT HANGER
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
		1	8 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	IBT/ELEC ONLY REHEAT
		1	AUXILIARY REHEAT
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)

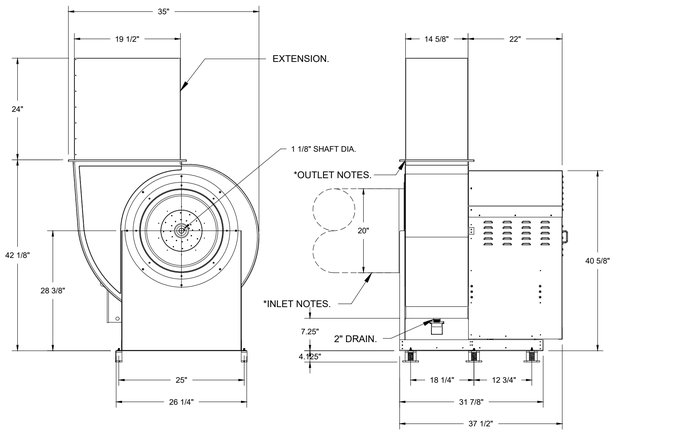
CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	25 LBS	RAIL	4.000"W X 48.000"L X 10.000"H ALONG WIDTH, RIGHT COMES AS A SET OF 2.
2	# 2	MUA-1	111 LBS	CURB	49.500"W X 75.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.

FAN #1 USBI18DD-RM - EXHAUST FAN (KEF-1)



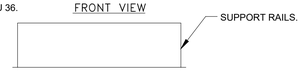
TOP VIEW



SIDE VIEW

(6) ISOLATORS = USBI18 THRU 36.

FRONT VIEW

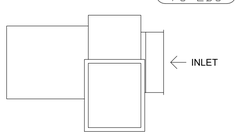


* INLET/OUTLET NOTES:
LENGTH OF THE STRAIGHT DUCT ON THE INLET AND OUTLET TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.

NORMAL TEMPERATURE TEST DIRECT DRIVE EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

UNIT PLAN VIEW CORNER WEIGHTS:

92 LBS | 75 LBS



146 LBS | 104 LBS

CORNER WEIGHTS ARE CALCULATED BASED ON VERTICAL DISCHARGE. SUPPORT DUCT PROPERLY BEFORE FAN TO ENSURE CORNER WEIGHTS ARE NOT AFFECTED.

FEATURES:

- ROOF MOUNTED FANS.
- UL705.
- UL762 AND ULC-S645 (RESTAURANT MODEL).
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C).
- HEAT SLINGER.
- NEMA 3R SAFETY DISCONNECT SWITCH.
- GREASE CLASSIFICATION TESTING.
- 2" DRAIN.
- MOTOR WEATHER COVER.
- FULLY SEALED SCROLL HOUSING.
- SCROLL ACCESS DOOR.
- FLANGE 1 1/4".

UNCLUDED OPTIONS:

- BI18 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 20" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER.
- UTILITY SET GREASE CUP.
- BI18 - 24" DISCHARGE EXTENSION.
- BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE.
- BI18 - INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT.
- UTILITY SET - SPRING VIBRATION ISOLATORS - BI18 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE.
- 2 YEAR PARTS WARRANTY.

Date	12/20/22
Checked	MAM
Drawn	JPD

MICHAEL J. McGOVERN, R.A.
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NYSED PROJECT # 66-07-01-03-0-004-033

CAPTIVE AIRE MECHANICAL DETAILS
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 109285M602

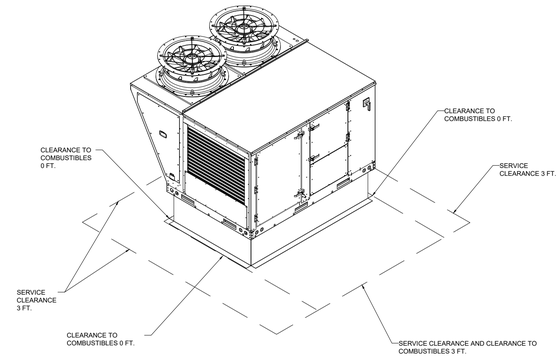
M6.02

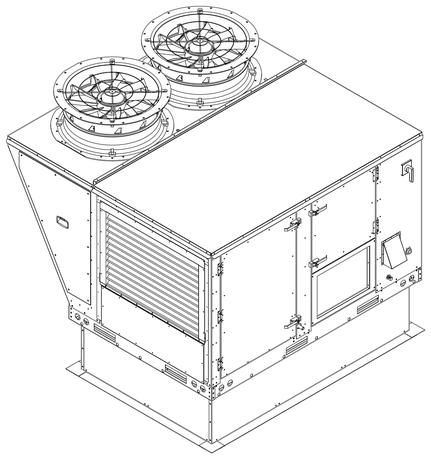
FAN #2 CASRTU2-I.200-15-8T-DOAS - HEATER (MUA-1)

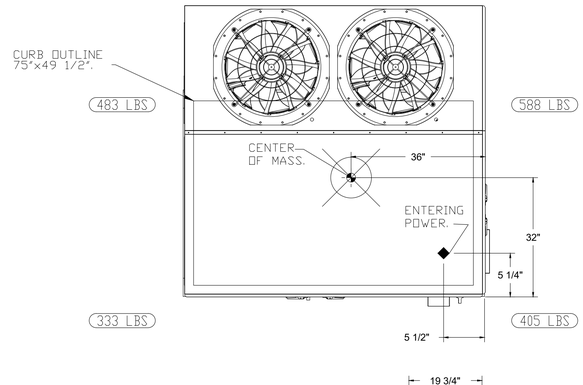
NOTES:

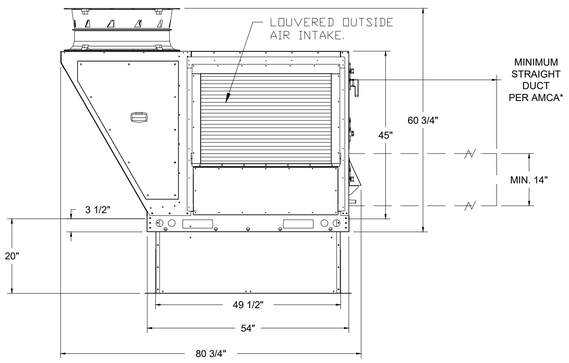
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
2. ( ) DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.

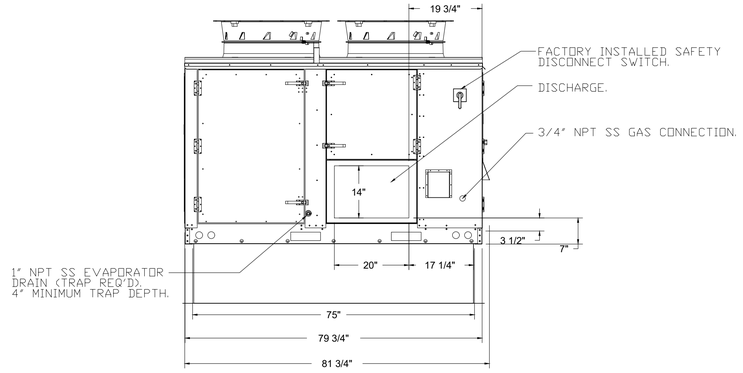
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 20" x 14".

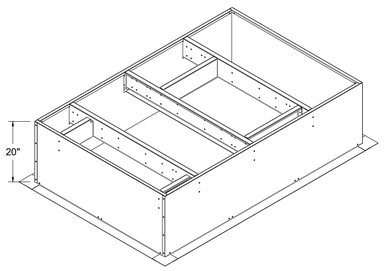


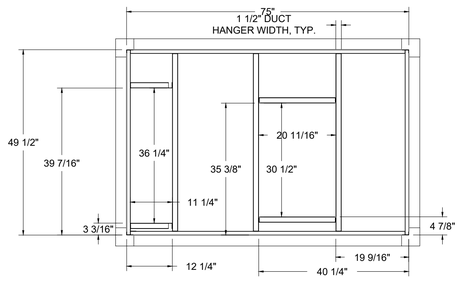












Date	12/20/22
Checked	MAM
Drawn	JPD

MICHAEL J. McGOVERN, R.A.
Title REGISTERED ARCHITECT License No. 022257-1

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1	08/02/23 ISSUE FOR RE-BID

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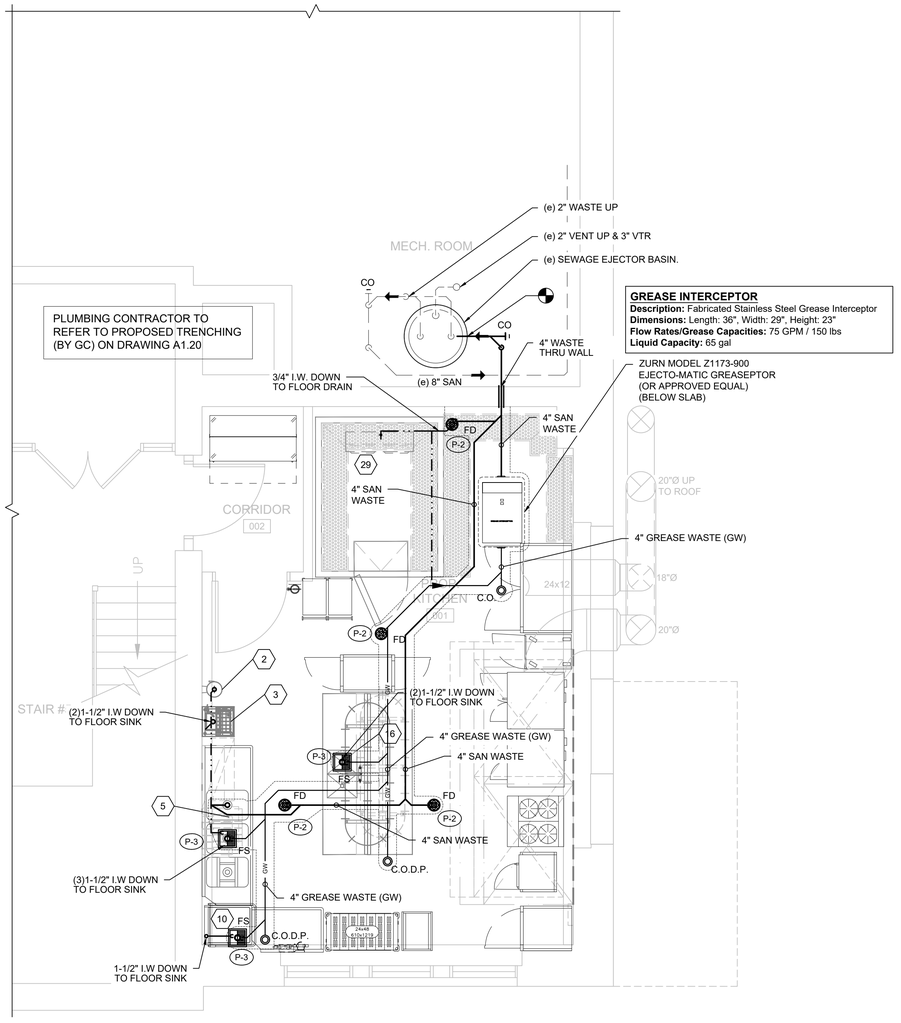
NYSED PROJECT # 66-07-01-03-0-004-033

LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying LLP
252 Main Street, Goshen, New York 10924 | t. 845-615-0350 | f. 845-615-0351

CAPTIVE AIRE MECHANICAL DETAILS
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

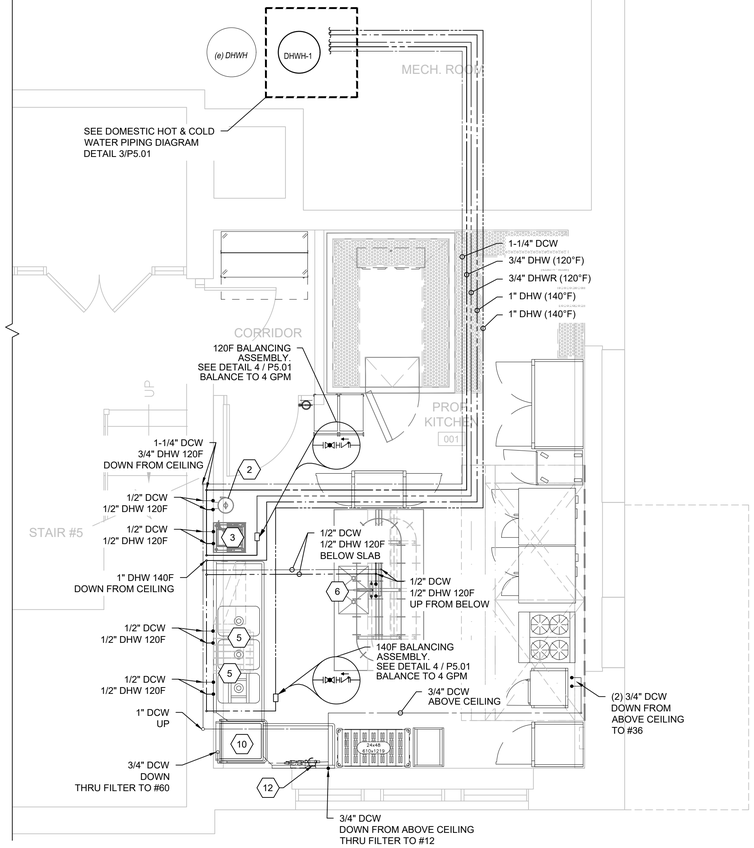
Job No. 4.1092.85
File No. 109285M603

M6.03



1 P2.01 — Proposed Kitchen Plumbing Floor Plan — 1/4" = 1'-0" — NORTH — SANITARY AND GREASE WASTE

GREASE INTERCEPTOR
Description: Fabricated Stainless Steel Grease Interceptor
Dimensions: Length: 36", Width: 29", Height: 23"
Flow Rates/Grease Capacities: 75 GPM / 150 lbs
Liquid Capacity: 65 gal



2 P2.01 — Proposed Kitchen Plumbing Floor Plan — 1/4" = 1'-0" — NORTH — DOMESTIC WATER

EQUIPMENT SCHEDULE

ITEM NO (00)	EQUIPMENT CATEGORY	QTY	HOT WATER SIZE (IN)	COLD WATER SIZE (IN)	DIRECT DRAIN SIZE (IN)	INDIR DRAIN SIZE (IN)	GAS SIZE (IN)
2	EYE WASH STATION, WALL MNTD.	1	1/2	1/2	1-1/4		
3	HAND SINK W/ INTEGRAL UTILITY	1	1/2	1/2		1-1/2	
						1-1/2	
5	3-COMPARTMENT SINK, POTWASH	1	1/2	1/2		1-1/2	
			1/2	1/2		1-1/2	
						1-1/2	
10	WAREWASHER, DOOR TYPE, VENTLESS	1		1/2		1-1/2	
12	FILTER SYSTEM FOR ITEM #10	1		3/4			
16	PREP. TABLE, 2-COMPARTMENT	1	1/2	1/2		1-1/2	
25	WALK-IN FREEZER	1					
26	REFRIGERATION TO ITEM #25	1				3/4	
33	OVEN, CONVECTION, GAS	2					3/4
34	RANGE, HEAVY DUTY, GAS	1					1
36	STEAMER, ATMOSPHERIC	1		3/4		3/4	1/2
				3/4		3/4	1/2

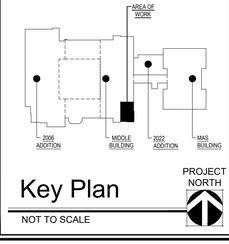
SEE DRAWING FS.1 FOR ALL FOOD SERVICE DETAILS AND SCHEDULES. THE ABOVE SCHEDULE ONLY SHOWS EQUIPMENT THAT REQUIRES DOMESTIC WATER, GAS AND SANITARY DRAINS.

Plumbing Legend

	Exist	Proposed		Exist	Proposed
Domestic Cold Water			Sanitary Waste		
Domestic Hot Water 120°F			Sanitary Grease Waste		GW
Domestic Hot Water Return			Sanitary InDirect Waste		
Domestic Hot Water 140°F			Sanitary Vent		
Dom Hot Water 140°F Return					

Point of Connection — Floor Drain FD — Floor Sink FS — Air Gap Fitting — Lever Control

MAMARONECK AVENUE SCHOOL



Key Plan — NOT TO SCALE — PROJECT NORTH

Date	12/20/22
Checked	MAM
Drawn	RJS

MICHAEL J. McGOVERN, R.A.
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Revisions:
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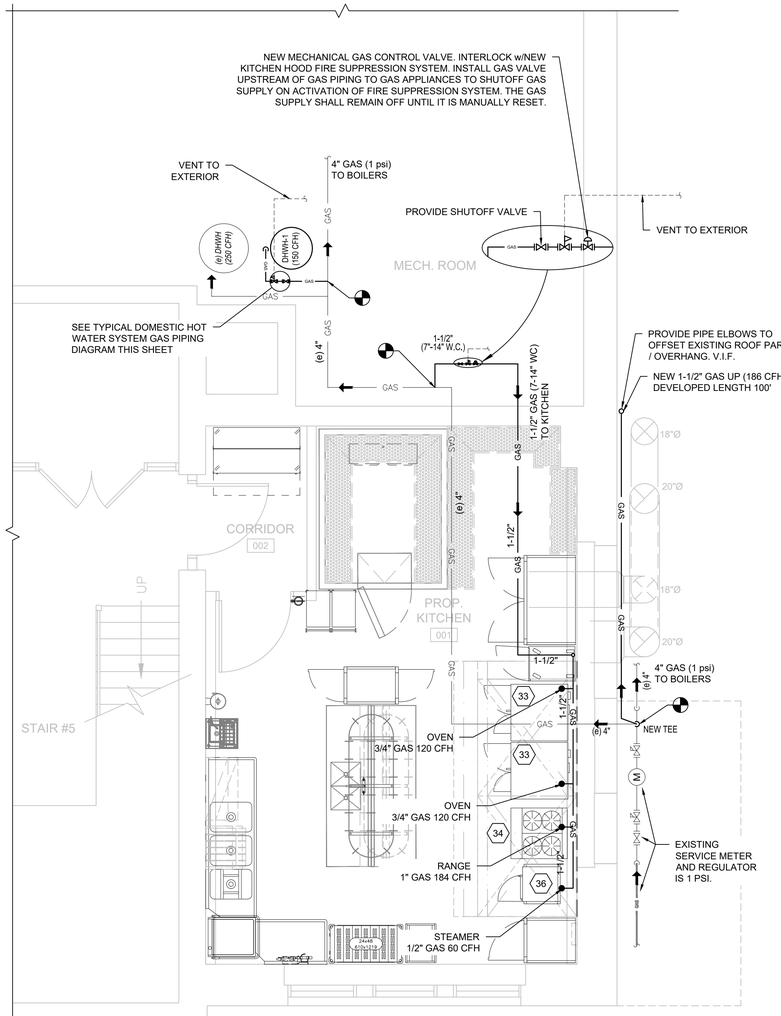
NYSED PROJECT # 66-07-01-03-0-004-033

PROPOSED KITCHEN & BOILER RM PLUMBING
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

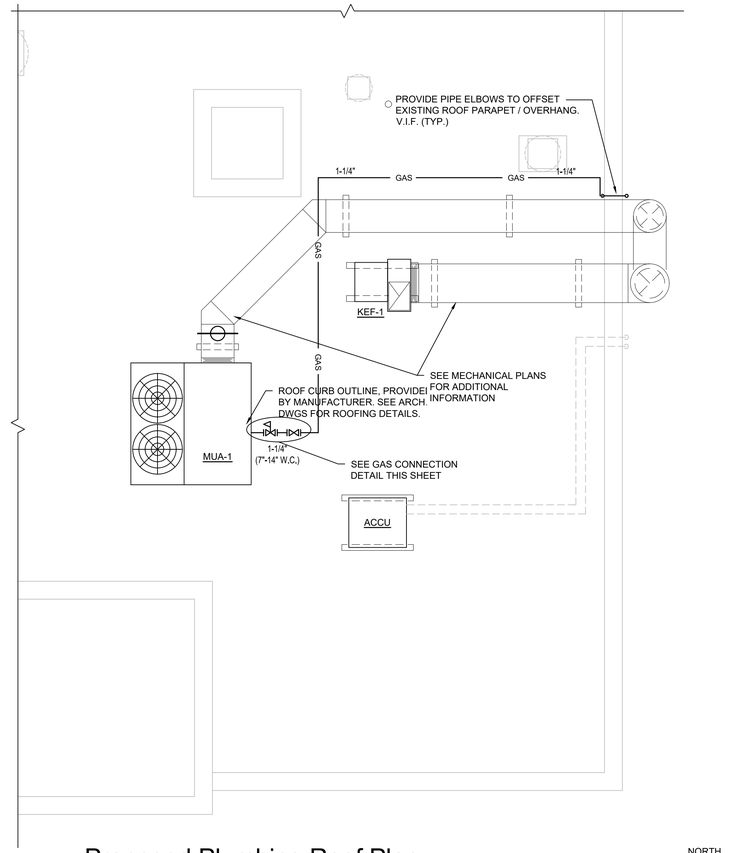
Job No. 4.1092.85
File No. 109285P201

P2.01

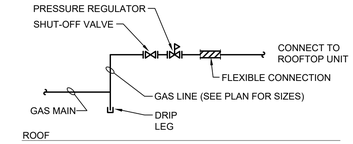


1 P2.02 **Proposed Kitchen Gas Plan** — 1/4" = 1'-0" — NORTH

PARTIAL LOWER LEVEL FLOOR PLAN



2 P2.02 **Proposed Plumbing Roof Plan** — 1/4" = 1'-0" — NORTH



6 P2.02 **Gas Connection Detail** — N.T.S.

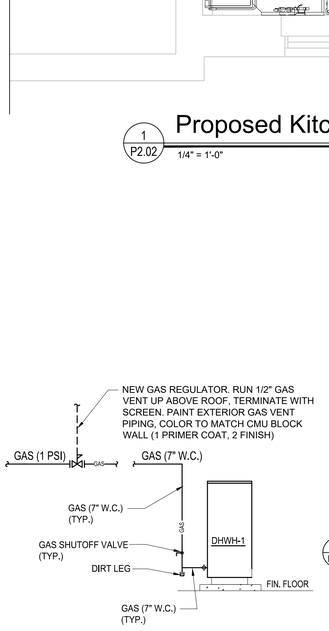
EQUIPMENT SCHEDULE

ITEM NO (00)	EQUIPMENT CATEGORY	QTY	GAS SIZE (IN)	MBTUH (CFH)
33	OVEN, CONVECTION, GAS	2	3/4	120
34	RANGE, GAS	1	1	184
36	STEAMER, GAS	1	1/2	60

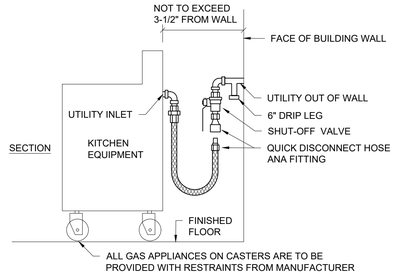
SEE DRAWING FS.1 FOR ALL FOOD SERVICE DETAILS AND SCHEDULES. THE ABOVE SCHEDULE ONLY SHOWS EQUIPMENT THAT REQUIRES GAS SERVICE.

GAS PIPING NOTES:

1. GAS PIPING ABOVE GRADE SHALL BE BLACK STEEL SCHEDULE #40 WITH MALLEABLE IRON THREADED FITTINGS FOR PIPE 1" DIAMETER AND SMALLER, 1-1/4" AND LARGER PIPE SHALL HAVE WELDED FITTINGS AND JOINTS.
2. PIPING SHOULD BE RIGIDLY MOUNTED AND PROTECTED AGAINST VIBRATION.
3. INSTALL AN APPROVED LENGTH OF FLEXIBLE FUEL HOSE BETWEEN THE EQUIPMENT FUEL LINE CONNECTION POINT AND RIGID PIPING. THE FLEXIBLE CONNECTION SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 536 AND SHALL BE INSTALLED IN COMPLIANCE WITH ITS LABEL AND THE MANUFACTURER'S INSTALLATION INSTRUCTION.
4. INSTALL NORMALLY CLOSED NATURAL GAS SOLENOID VALVE (LISTED SAFETY SHUT OFF VALVE).
5. INSTALL BOTH MANUAL AND ELECTRIC (BATTERY-POWERED) SHUT OFF VALVE AHEAD OF THE FLEXIBLE FUEL HOSE. THE MANUAL VALVE SHALL BE THE INDICATING TYPE.
6. INSTALLED PIPING MUST BE PROPERLY PURGED AND LEAK TESTED, IN ACCORDANCE WITH APPLICABLE STANDARDS.
7. CONTRACTOR IS REQUIRED TO COORDINATE W/ LOCAL UTILITY COMPANY TO PROVIDE MIN. GAS PRESSURE OF SHOWN ON THE GAS RISER. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS.
8. ALL GAS PRESSURE REGULATORS SHALL BE LOCKUP TYPE.
9. PROVIDE GAS SHUTOFF BALL VALVES FOR PIPE SIZES 2-1/2" & SMALLER. PROVIDE PLUG TYPE SHUTOFF VALVES FOR PIPE SIZES 3" & LARGER.
10. ALL INDOOR GAS PIPING SHALL BE PAINTED YELLOW (1 PRIMER & 2 FINISH COATS). ALL OUTDOOR GAS PIPING SHALL BE PAINTED GRAY (1 PRIMER & 2 FINISH COATS).
11. ALL INDOOR GAS VENTS SHALL BE PAINTED BLACK (1 PRIMER & 2 FINISH COATS). ALL OUTDOOR GAS VENTS SHALL BE PAINTED TO MATCH EXTERIOR FINISH (1 PRIMER & 2 FINISH COATS).



4 P2.02 **Typical Domestic Hot Water System Gas Piping Diagram** — N.T.S.



5 P2.02 **Kitchen Equipment Gas Pipe Connection Detail** — N.T.S.

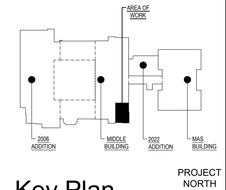
NOTES:

1. GAS PIPE SIZES BASED ON 2020 IFGC TABLE 402.4(2) "SCHEDULE 40 METALLIC PIPE" FOR PRESSURES LESS THAN 2 PSI WITH A PRESSURE DROP OF 0.5" W.C.
2. PLUMBING CONTRACTOR TO PROVIDE 1/2" VENT FOR ALL INDOOR GAS PRESSURE REGULATORS. PIPE VENT RELIEF TO ATMOSPHERE. COORDINATE W/ LOCAL UTILITY COMPANY FOR GAS PRESSURE REGULATOR VENTING REQUIREMENTS.

3 P2.02 **Proposed Kitchen Plumbing Riser Diagram** — N.T.S.

NATURAL GAS

MAMARONECK AVENUE SCHOOL



Key Plan — NOT TO SCALE

PROJECT NORTH

Date	12/20/22
Checked	MAM
Drawn	RJS

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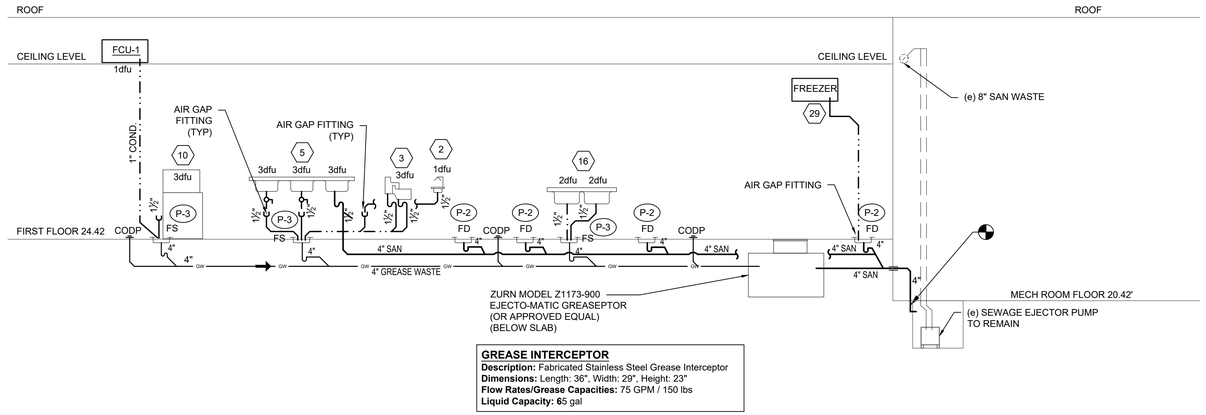
PROPOSED KITCHEN & BOILER RM GAS PLAN/RISER
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

NYSED PROJECT # 66-07-01-03-0-004-033

Job No. 4.1092.85

File No. 109285P201

P2.02

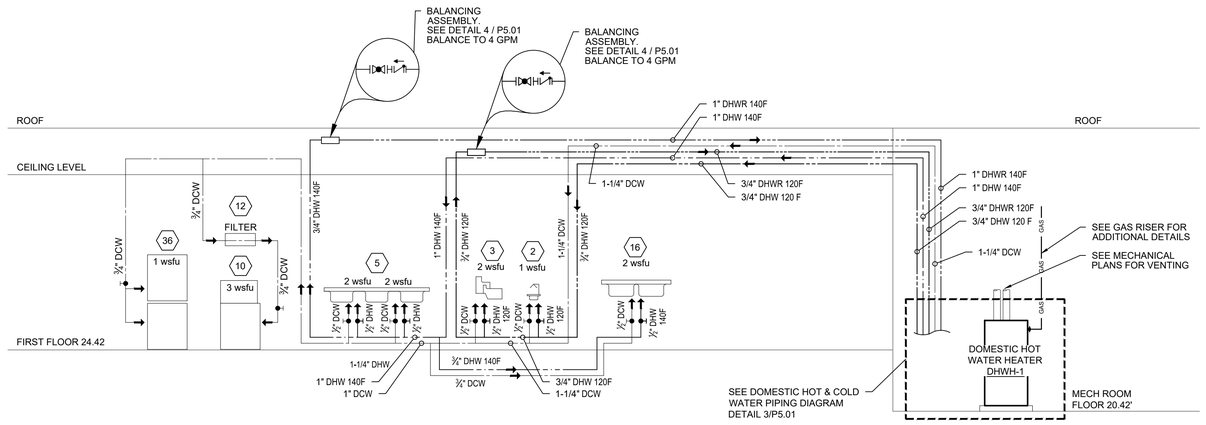


GREASE INTERCEPTOR
Description: Fabricated Stainless Steel Grease Interceptor
Dimensions: Length: 36", Width: 29", Height: 23"
Flow Rates/Grease Capacities: 75 GPM / 150 lbs
Liquid Capacity: 65 gal

1 P5.01 Proposed Kitchen Plumbing Riser Diagram

1/4" = 1'-0"

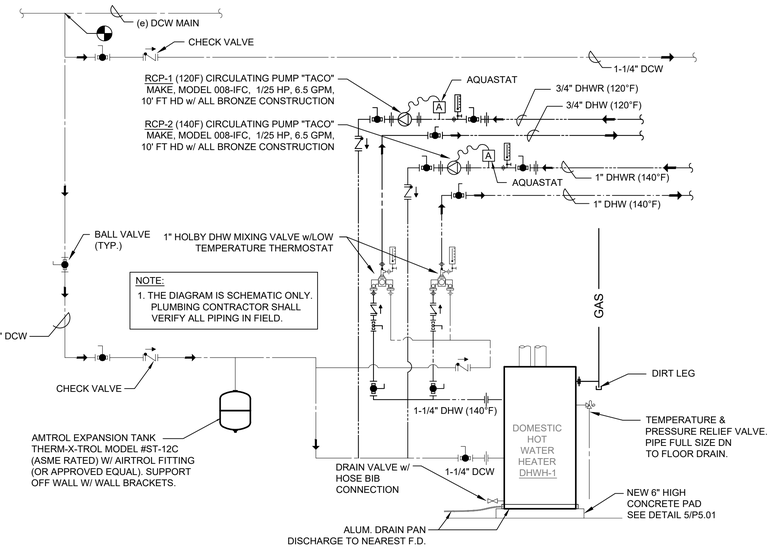
SANITARY AND GREASE WASTE



2 P5.01 Proposed Kitchen Plumbing Riser Diagram

1/4" = 1'-0"

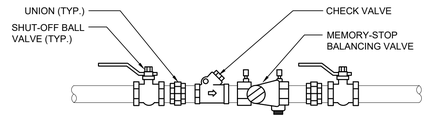
DOMESTIC WATER



3 P5.01 Proposed Domestic Hot & Cold Water Piping Diagram

1/4" = 1'-0"

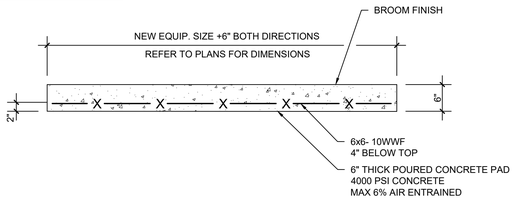
DOMESTIC WATER



NOTES
1. ALL THREADED PIPING BETWEEN UNIONS SHALL BE BRASS.
2. INSTALL DI-ELECTRIC UNIONS FOR PIPING CONNECTIONS OF DISSIMILAR METALS.

4 P5.01 DHWR Balancing Assembly Detail

N.T.S.



5 P5.01 Concrete Pad Detail

N.T.S.

EQUIPMENT SCHEDULE

ITEM NO	EQUIPMENT CATEGORY	QTY	HOT WATER SIZE (IN)	COLD WATER SIZE (IN)	DIRECT DRAIN SIZE (IN)	IND/R DRAIN SIZE (IN)	GAS SIZE (IN)
2	EYE WASH STATION, WALL MNTD.	1	1/2	1/2	1-1/4		
3	HAND SINK W/ INTEGRAL UTILITY	1	1/2	1/2		1-1/2	
						1-1/2	
5	3-COMPARTMENT SINK, POTWASH	1	1/2	1/2		1-1/2	
			1/2	1/2		1-1/2	
						1-1/2	
10	WAREWASHER, DOOR TYPE, VENTLESS	1		1/2		1-1/2	
12	FILTER SYSTEM FOR ITEM #10	1		3/4			
16	PREP. TABLE, 2-COMPARTMENT	1	1/2	1/2		1-1/2	
25	WALK-IN FREEZER	1					
26	REFRIGERATION TO ITEM #25	1				3/4	
33	OVEN, CONVECTION, GAS	2					3/4
34	RANGE, HEAVY DUTY, GAS	1					1
36	STEAMER, ATMOSPHERIC	1		3/4		3/4	1/2
				3/4		3/4	1/2

SEE DRAWING FS.1 FOR ALL FOOD SERVICE DETAILS AND SCHEDULES. THE ABOVE SCHEDULE ONLY SHOWS EQUIPMENT THAT REQUIRES DOMESTIC WATER, GAS AND SANITARY DRAINS.

GRAVITY GREASE INTERCEPTOR SIZING

STANDARD PDI-G101, TABLE 8.3.2

EQUIPMENT	QUANTITY	BOWL QUANTITY	DIMENSIONS OF SINK BOWL (L x W x H IN INCHES)			DRAIN DOWN DURATION	INDIVIDUAL FIXTURE FLOW (GPM)	SIMULTANEOUS DRAINING (YES/NO)	TOTAL FIXTURE FLOW (GPM)
SINK (3-COMP)	1	2	21	21	14	2 MINUTE	10 x 2	YES	20
SINK (2-COMP)	1	2	21	21	14	2 MINUTE	10 x 2	YES	20
DISHWASHER (DOOR TYPE)	1	1	-	-	-	2 MINUTE	5	YES	5
HANDJIAN (2-COMP)	1	2	-	-	-	2 MINUTE	1.5 x 2	YES	3

GREASE PRODUCTION	TOTAL FLOW RATE (GPM)	48
SERVINGS PER DAY x GREASE PRODUCTION VALUE x DAYS BETWEEN PUMP-OUTS = GREASE OUTPUT NUMBER OF MEALS SERVED PER DAY: 150 GREASE PRODUCTION VALUE: 0.025 LBS PER SERVING (CAFE HEAT&SERVE: MEDIUM / NO FLATWARE) DAYS BETWEEN PUMP-OUTS: 30 DAYS 150 X 0.025 X 30 = 112.5 LBS OF FOG		
ZURN MODEL Z1173-900 EJECTO-MATIC GREASEPTOR (OR APPROVED EQUAL) DESCRIPTION: FABRICATED STAINLESS STEEL GREASE INTERCEPTOR DIMENSIONS: LENGTH: 36", WIDTH: 29", HEIGHT: 23" FLOW RATES/GREASE CAPACITIES: 75 GPM / 150 LBS LIQUID CAPACITY: 65 GAL		

Plumbing Legend

	Exist	Proposed		Exist	Proposed
Domestic Cold Water			Sanitary Waste		
Domestic Hot Water 120°F			Sanitary Grease Waste		GW
Domestic Hot Return			Sanitary InDirect Waste		
Domestic Hot Water 140°F			Sanitary Vent		
Dom Hot Water 140°F Return					

Point of Connection · Floor Drain FD · Floor Sink FS · Air Gap Fitting · Lever Control

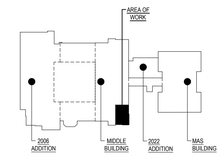
DOMESTIC HOT WATER HEATER SCHEDULE

(AO SMITH AS STANDARD)

TAG No.	SERVICE	INPUT RATING (MBH)	RECOVERY RATE @ 100°F RISE (GPH)	STORAGE CAPACITY (GAL.)	THERMAL EFFICIENCY %	FLUE SIZE	ELECTRIC DATA VOLT/PH/HZ	MODEL & MANUFACTURER	DIMENSION DIA. x H (IN.)	APPROX. WEIGHT (LB.)	REMARKS
DHWH-1	KITCHEN	150	178	100	98	4"Ø	115/1/60	BTH-150A Mxi AO SMITH	27-3/4 x 75-1/2	523	SEE NOTES

NOTES:
1. PROVIDE W/ STANDARD 150 PSI TEMPERATURE & PRESSURE RELIEF VALVE AND 4" PVC CONCENTRIC VENT.
2. PROVIDE A CONDENSATE DRAIN W/ CONDENSATE ACID NEUTRALIZING TUBE MODEL #JM-2 (OR APPROVED EQUAL) ON BOTTOM OF EXHAUST FLUE VENT
3. PROVIDE ALUMINUM DRAIN PAN, DISCHARGE W/PVC TO NEAREST FLOOR DRAIN (MAKE: HOLDRITE QP-30 OR APPROVED EQUAL.

MAMARONECK AVENUE SCHOOL



Key Plan

NOT TO SCALE

PROJECT NORTH

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KITCHEN PLUMBING RISERS & NOTES
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
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Job No. 4.1092.85

File No. 109285P201

NYSED PROJECT # 66-07-01-03-0-004-033

P5.01

PLUMBING FIXTURE SCHEDULE - CULINARY ARTS

NUMBER	FIXTURE	MANUFACTURER	TYPE & MODEL NO.	TRIM NO.	SUPPLY PIPE NO.	TRAP NO.	SUPPORT NO.	PIPE SIZES					DFU	WSFU	DESCRIPTION
								TRAP	WASTE	VENT	CW	HW			
P-1	(RESERVED)			-											
P-2	3" FLOOR DRAIN	J.R. SMITH	2110Y	--	--	P-TRAP	--	3"	3"	2"	--	--	5	--	FLOOR DRAIN W/ HINGED GRATE, SEDIMENT BUCKET, NICKEL BRONZE ROUND TOP & J.R. SMITH QUAD CLOSE TRAP SEAL.
P-3	FLOOR SINK	J.R. SMITH	325-Y03	--	--	--	--	3"	3"	2"	--	--	5	--	12"x12"x6" DEEP CAST IRON FLOOR SINK WITH WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET GRATE (COORDINATE GRATE TYPE WITH OWNER/KITCHEN EQUIPMENT SUPPLIER), SEDIMENT BUCKET.

ABBREVIATIONS

&	=	DIAMETER OR ROUND
ADD'L	=	ADDITIONAL
AFF	=	ABOVE FINISHED FLOOR
ALT	=	ALTERNATE
ARCH.	=	ARCHITECTURAL
CD	=	CONDENSATE DRAIN
CLG	=	CEILING
CO	=	CLEANOUT
CODP	=	CLEANOUT DECK PLATE
COWP	=	CLEANOUT WALL PLATE
CRD	=	CANOPY ROOF DRAIN
DCW	=	DOMESTIC COLD WATER
DDC	=	DIRECT DIGITAL CONTROL
DHW	=	DOMESTIC HOT WATER
DHWR	=	DOMESTIC HOT WATER RETURN
DN	=	DOWN
DWG	=	DRAWING
EA	=	EACH
EXIST	=	EXISTING
FD	=	FLOOR DRAIN
GPH	=	GALLON PER HOUR
HWH	=	DOMESTIC HOT WATER HEATER
ID	=	INSIDE DIAMETER (DIM)
IN	=	INCH
INFO	=	INFORMATION
MAX	=	MAXIMUM
MECH	=	MECHANICAL
MIN	=	MINIMUM
NTS	=	NOT TO SCALE
OD	=	OUTSIDE DIAMETER
RD	=	ROOF DRAIN
RPZ	=	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
SPEC	=	SPECIFICATION
SS	=	STAINLESS STEEL
STD	=	STANDARD
T&P	=	TEMPERATURE & PRESSURE
TMV	=	THERMOSTATIC MIXING VALVE
TYP	=	TYPICAL
VTR	=	VENT THROUGH ROOF

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR CUTTING OF ALL WALLS, FLOORS, CEILING ETC. FOR ALL PLUMBING PIPE WALL & FLOOR PENETRATIONS.
2. CONTRACTOR IS REQUIRED TO PATCH (TO MATCH EXISTING), IMMEDIATELY AFTER REMOVAL, ALL WALL, FLOOR & CLG. OPENINGS WHERE EXISTING PIPE, ETC. ARE BEING REMOVED. SEAL OPENING WITH 2 HR RATED FIRE BARRIER CAULK. SEE GENERAL LOCATIONS ON PLUMBING DEMOLITION PLANS.
3. CONTRACTOR SHALL PROVIDE TIE-IN FOR ALL NEW CONDUIT THAT PENETRATES EXISTING ROOF. G.C. TO PROVIDE ROOFING PATCH WORK.
4. WHERE A FIREPROOFING MATERIAL THAT IS INTEGRAL TO THE RATING OF AN EXISTING FIRE-RATED ASSEMBLY IS REMOVED OR DISTURBED, CONTRACTOR IS REQUIRED TO REPLACE THE MATERIAL TO PRESERVE THE RATING.

PLUMBING SYSTEM MATERIALS

PIPING:

WASTE & VENT PIPING BELOW GRADE SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH GASKETS, ABOVE GRADE SHALL BE NO-HUB SERVICE WEIGHT CAST IRON PIPE WITH STAINLESS STEEL SHIELDED COUPLINGS.

DOMESTIC HOT AND COLD WATER PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER SOLDER FITTINGS (LEAD-FREE SOLDER). BELOW GRADE SHALL BE TYPE "K" COPPER WITHOUT FITTINGS.

GAS PIPING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS (UP TO 2" PIPE SIZE) AND WELDED FITTINGS (PIPE SIZE 2-1/2" & LARGER).

CONDENSATE DRAIN PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER SOLDER FITTINGS

INSULATION:

ALL DOMESTIC HOT AND COLD WATER PIPING SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH ASJ JACKET: 1-1/2" THICK INSULATION FOR PIPE SIZES 3" & SMALLER, 2" THICK. INSULATION FOR PIPE SIZES 4" & LARGER.

ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC INSULATION (AP ARMAFLEX BLACK LAPSEAL OR APPROVED EQUAL).

CLEANOUTS:

FLOOR: J R. SMITH #4023S W/ ROUND NICKEL-BRONZE TOP.

WALL: J.R. SMITH #4532S W/ ROUND STAINLESS STEEL TOP.

PIPE INSULATION/COVERS:

PROVIDE TRUEBRO "LAV GUARD 2" WASTE & SUPPLY PIPING COVERS FOR ALL LAVATORIES.

VALVES & FITTINGS:

ALL VALVES & FITTINGS FOR DOMESTIC WATER SYSTEM SHALL BE LEAD FREE TYPE IN COMPLIANCE W/ REQUIREMENTS OF NSF/ANSI STANDARD 61. ALL BALL VALVES SHALL BE FULL-PORT TYPE.

PENETRATION FIRESTOPPING:

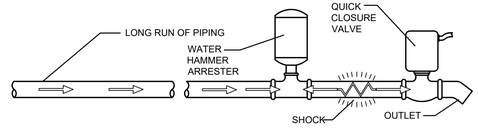
ALL PIPE PENETRATIONS (AT WALL, FLOOR, CHASE, ETC.) SHALL BE SEALED & CAULKED W/ 2 HR RATED FIRESTOPPING MATERIALS.

PLUMBING GENERAL NOTES

1. ALL WORK SHALL CONFORM TO LATEST EDITION OF NEW YORK STATE ENERGY CODE & PLUMBING CODE, AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL VISIT JOB SITE AND NOTE ALL EXISTING CONDITIONS TO BE MET BEFORE SUBMITTING BID. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND SHOW THE INTENT OF WORK.
3. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXTENT AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS OR COMMENCING WORK.
4. CONTRACTOR TO PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT WORK, OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL FOR WORK, AND PAY FOR ANY LEGAL FEES.
5. INSTALLATION TO COMPLY WITH ALL FEDERAL, STATE, MUNICIPAL LAWS, AND ALL CODES, RULES, ORDINANCES, AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED IN THE WORK.
6. CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES, AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
7. PIPE INSTALLATION AS FOLLOWS:
   a) RUN ALL PIPING CONCEALED IN CEILINGS, WALLS AND PARTITIONS.
   b) ALL PIPING TO BE PITCHED TO LOW POINTS WITH DRAIN VALVES. STORM AND WASTE PIPING SHALL BE SLOPED PER LATEST PLUMBING CODE.
   c) SLEEVE PIPING THAT PASSES THROUGH WALLS.
   d) INSTALL PITCH POCKETS & FLASH ALL PIPING THAT PASSES THROUGH ROOF.
   e) PROVIDE ROD HANGERS WITH CLEVIS PIPE SUPPORT PER SPECIFICATION.
   f) PROVIDE VALVES REQUIRED FOR COMPLETE CONTROL OF ALL SYSTEMS. STOP VALVES FOR SUPPLY TO ALL FIXTURES TO BE CHROME PLATED WHERE EXPOSED.
   g) PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES AND CLEANOUTS.
   h) CORE-DRILL FLOOR SLABS & PROVIDE 2-HR RATED FIRE STOPPING MATERIALS FOR ALL PIPE PENENTRATION THROUGH FLOOR SLABS.
8. CONTRACTOR TO PERFORM ALL TESTING OF THE PLUMBING WORK IN THE PRESENCE OF THE OWNER. PROVIDE ALL APPARATUS, TEMPORARY CONNECTIONS, AND OTHER REQUIREMENTS TO DO SUCH TESTS. ANY DEFECTS, LEAKS, ETC. WILL BE REPLACED AND TEST REPEATED UNTIL TEST REQUIREMENTS ARE MET.
9. SUBMIT SHOP DRAWINGS OF ALL WORK TO BE DONE, EQUIPMENT, AND FIXTURES FURNISHED.
10. PLUMBING CONTRACTOR TO CARRY OUT PERIODIC CLEANING TO REMOVE RUBBISH ETC., TO LEAVE PREMISES FREE FROM DEBRIS, AND DISCARDED MATERIALS. AFTER INSTALLATION, CLEAN FIXTURES, FITTINGS, ETC. AND LEAVE READY FOR USE.
11. CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OF SITE IN AN APPROVED MANNER.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP WORK AREAS UPON COMPLETION OF WORK.
13. SEE SPECIFICATION SECTION 011200 - SPECIAL PROVISIONS AND 010101 - MULTIPLE PRIME CONTRACT SUMMARY FOR INFORMATION REGARDING RESPONSIBILITY OF EACH PRIME CONTRACTOR AND REQUIRED COORDINATION.
14. ALL PRIME CONTRACTORS ARE RESPONSIBLE FOR REVIEWING ARCHITECTURAL DEMOLITION NOTES ON DRAWING A1.01 AS WELL AS ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND ELEVATOR DRAWINGS AND NOTES.

SIZING & PLACEMENT OF WATER HAMMER ARRESTER (WHA)

THE FOLLOWING CHART INDICATES THE SIZE OF THE WATER ARRESTER REQUIRED FOR LONG RUNS OF PIPING WHICH FEED A SINGLE REMOTE FIXTURE OR APPLIANCE. THE WATER ARRESTER UNIT SHALL BE SIZED BY USING THE CHART AND LOCATED AS CLOSE TO THE POINT OF QUICK CLOSURE AS POSSIBLE.

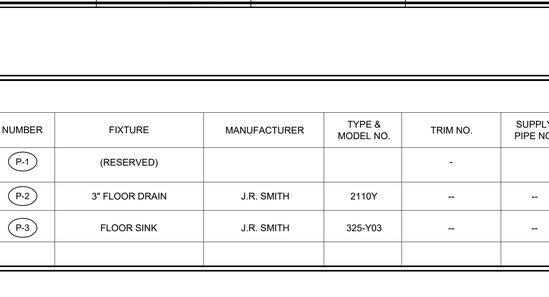


WATER HAMMER ARRESTER SELECTION CHART

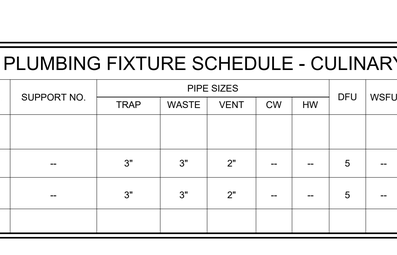
LENGTH OF PIPE	NOMINAL PIPE SIZE					
	1/2"	3/4"	1"	1-1/4"	1-1/12"	2"
25'	5005	5005	5010	5020	5030	5040
50'	5005	5010	5020	5030	5040	5050
75'	5010	5020	5030	1-5005 1-5040	5050	1-5040 1-5050
100'	5020	5030	5040	5050	1-5020 1-5050	2-5050
125'	5020	5030	5050	1-5005 1-5050	1-5040 1-5050	1-5040 2-5050
150'	5030	5040	5050	1-5030 1-5050	2-5050	3-5050

NOTE: THE ABOVE CHART SHOWS LENGTHS OF RUN OF BRANCH PIPING. THE LENGTH OF RUN USED SHALL BE THE LENGTH OF PIPE FROM POINT OF VALVE CLOSURE TO A POINT OF RELIEF, SUCH AS LARGE PIPE RISER TWICE THE SIZE OF THE BRANCH LINE, MAIN LINE OR WATER TANK.

ALL SIZING RECOMMENDATIONS SHOWN ON THE ABOVE CHART ARE BASED ON AN OPERATING WATER PRESSURE OF 65 PSI OR UNDER AN AVERAGE VELOCITY BETWEEN 5 AND 10 FEET PER SECOND. IF OPERATING PRESSURE IS OVER 65 PSI USE THE NEXT LARGER WATER HAMMER ARRESTER UNIT. WHEN PRESSURE IS ANTICIPATED ABOVE 80 PSI A PRESSURE REDUCING VALVE IS REQUIRED.



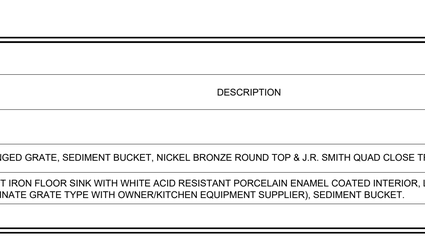
1 P6.01 GAS PIPE ROOF SUPPORT DETAIL
N.T.S



X = NEGATIVE INTERNAL STATIC PRESSURE AT FAN INLET.

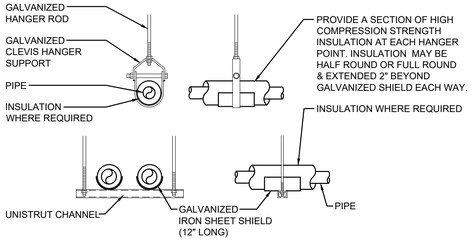
NOTES:
1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP
2. PITCH DRAIN FOR PROPER RUN – OFF.
3. MANUALLY, PRIME FILL TRAP BEFORE STSRT –UP TO FORM INITIAL DRAIN SEAL.
4. SUPPORT LENGHTY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.

2 P6.01 CONDENSATE DRAIN TRAP DETAIL
N.T.S



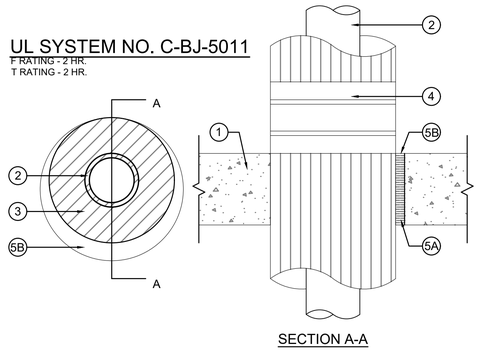
3 P6.01 PIPE RISER CLAMP
N.T.S

NOTES:
1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM STRUCTURES OR TO THE TOP CORD OF BAR JOISTS OR BEAMS.
2. PROVIDE COPPER CLAMP HANGER SUPPORTS FOR COPPER PIPING.
3. PROVIDE PIPE SADDLE SUPPORTS FOR LARGE DIAMETER PIPES OR PIPE HEADERS.



4 P6.01 PIPE SUPPORT HANGERS
N.T.S

UL SYSTEM NO. C-BJ-5011
F RATING - 2 HR.
T RATING - 2 HR.

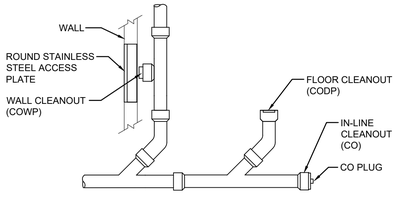


1. Floor or Wall Assembly - Min 5-½ in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max daim. of opening is 14 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants - One metallic pipe or tubing to be installed either concentrically or eccentrecally within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   B. Iron Pipe - Nom 6in. diam. (or smaller) cast or ductile iron pipe.
3. Pipe Covering* - Cellular Glass Insulation - Max 3 in. thick cellular glass units sized to the outside diam. of the steel pipe and supplied in nom 24 in. long half sections or nom 18 in. long segments. The annular space shall be min 0 in. (point contact) to max 2 in. Pipe insulation installed on pipe in accordance with the manufacturer's instructions.
   PITTSBURGH CORING CORP - FOAMGLAS
4. Metal Jacket - Min. 12 in. long jacket formed on min. 0.010 in. thick steel or aluminum sheet cut to wrap tightly around the pipe insulation with a min. 2 in. lap. Jacket secured with min. ½ in. wide stainless steel hose clamps or bands located within 2 in. of each end of the jacket and spaced a max. of 10 in. O.C.

   Jacket to be installed with edges abutting surface of caulk fill material (Item 5) on both surfaces of wall. Metal jacket to be used in addition to any other jacketing material which may be required to or desired on the pipe insulation.
5. Firestop System - The firestop system shall consist of the following:
   A Packaging Material - Min 5 in. thickness of min. 4 pcf mineral woll batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B Fill, Void or Cavity Material* - Sealant - Min. ½ in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At point contact location between penetrant and periphery of opening, a min. ½ in. diam. bead of fill material shall be applied at the periphery of opening/pipe covering interface on top surface of floor assembly or both surfaces of wall assembly.
   JOHNS MANVILLE INTERNATIONAL INC - Firetemp

*Bearing the UL Classification Mark

5 P6.01 TYPICAL PIPE PENETRATION (ALL LOCATIONS) 2-HOUR RATED
N.T.S



6 P6.01 CLEANOUT DETAIL
N.T.S

Date	12/20/22
Checked	MAM
Drawn	RJS

MICHAEL J. McGOVERN, R.A.
License No. 022257-1
Title REGISTERED ARCHITECT

Revisions:

#	
1	08/02/23 ISSUE FOR RE-BID

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LAN ASSOCIATES
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NYSED PROJECT # 66-07-01-03-0-004-033

PLUMBING SCHEDULE,NOTES & DETAILS

NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 109285P201

P6.01

Electrical General Notes

PROJECT INFORMATION:

1. UNLESS SPECIFICALLY NOTED OTHERWISE, IT SHALL BE UNDERSTOOD THAT WHEN THE WORDS "OWNER" OR "CLIENT" ARE USED IN THESE DRAWINGS THEY ARE INTERCHANGEABLE AN ALL REFER TO THE MAMARONECK UFSD.
2. UNLESS SPECIFICALLY NOTED OTHERWISE, IT SHALL BE UNDERSTOOD THAT WHEN THE WORDS "ARCHITECT", "ENGINEER", OR "A/E" ARE USED IN THESE DRAWINGS THEY ARE INTERCHANGEABLE AN ALL REFER TO LAN ASSOCIATES, ENGINEERING, PLANNING, ARCHITECTURE SURVEYING ("LAN").
3. UNLESS SPECIFICALLY NOTED OTHERWISE, IT SHALL BE UNDERSTOOD THAT WHEN THE WORD "CONTRACTOR" IS USED IN THE ELECTRICAL (E#.##) DRAWINGS AND/OR ELECTRICAL SPECIFICATION SECTIONS IT REFERS TO THE ELECTRICAL CONTRACTOR.
4. WHERE ANY DEVICE OR PART OF EQUIPMENT IS REFERRED TO IN THESE DRAWINGS IN THE SINGULAR NUMBER (E.G., "THE SWITCH", "THE RECEPTACLE"), THIS REFERENCE SHALL BE DEEMED TO APPLY TO AS MANY SUCH DEVICES AS ARE REQUIRED TO COMPLETE THE INSTALLATION AS SHOWN ON THE DRAWINGS.
5. HEALTH, SAFETY, AND CRITICAL OPERATING EQUIPMENT SHALL NOT BE COMPROMISED WITHOUT OWNER'S AUTHORIZATION. SCHEDULE SHUTDOWN DURING OFF HOURS AND IMPLEMENT AND MAINTAIN A TEMPORARY OPERATIONAL PLAN.

CODE & STANDARDS COMPLIANCE:

6. WHERE CODES ARE REFERENCED, THEY SHALL BE THE VERSION ENFORCED AS OF **DECEMBER, 2022**.
7. CODE COMPLIANCE IS MANDATORY. NOTHING IN THESE DRAWINGS AND SPECIFICATIONS PERMITS WORK NOT CONFORMING TO THESE CODES. WHERE WORK IS SHOWN TO EXCEED MINIMUM CODE REQUIREMENTS, COMPLY WITH DRAWINGS AND SPECIFICATIONS. WHEN DIFFERENCES IN UTILITY SPECIFICATIONS OR STANDARDS, GOVERNMENTAL ORDINANCES OR CODES OCCUR, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN THE INSTALLATION.
8. THE ELECTRIC INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENTLY ENFORCED EDITION OF THE NYSED MANUAL OF PLANNING STANDARDS, NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL SAFETY CODE (NESC), AMERICAN ELECTRICIANS' HANDBOOK, INTERNATIONAL BUILDING CODE (IBC), AMERICANS WITH DISABILITIES ACT (ADA), NFPA 55 & 99 ASHRAE 90.1 AND NEC STANDARD OF INSTALLATION. WHEREVER IN THE DOCUMENTS THE WORD "CODE" IS STATED, THE MORE STRINGENT OF THE ABOVE REFERENCED CODES IS IMPLIED.
9. ALL CONTRACTOR SUPPLIED MATERIAL/EQUIPMENT SHALL BE NEW AND UL LISTED OR APPROVED BY ANOTHER NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).
10. THE CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY THE DRAWINGS, BUILDING AND SAFETY CODES AND ORDINANCES, AND THE RULES AND REGULATIONS OF ANY LEGAL BODY HAVING JURISDICTION. PERMIT AND INSPECTIONS SHALL BE INCLUDED IN THE BASE BID AND SHALL NOT BE CAUSE FOR AN EXTRA.
11. CONTRACTOR SHALL CONFORM TO ALL SAFETY RULES AND OTHER REGULATIONS, ETC. PERTAINING TO CONSTRUCTION WORK ON THE CLIENT'S PREMISES. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL RULES AND REGULATIONS HAVE BEEN MET AND COORDINATE THIS WORK WITH RESPONSIBLE CLIENT'S PERSONNEL.
12. ALL ELECTRICAL EQUIPMENT AND RACEWAYS PERMANENTLY ATTACHED TO STRUCTURES, INCLUDING SUPPORTING STRUCTURES AND ATTACHMENTS TO NON-BUILDING STRUCTURES, SHALL BE ANCHORED FOR SEISMIC LOADING TO RESIST A HORIZONTAL FORCE ACTION IN ANY DIRECTION. CONTRACTOR SHALL PROVIDE SEISMIC RESTRAINTS FOR ALL CONDUITS LARGER THAN 2½" TRADE DIAMETER. PROVIDE SWAY BRACES FOR CONDUIT AND EQUIPMENT SUSPENDED FROM THE OVERHEAD. PROVIDE ANCHOR BOLTS FOR FLOOR AND WALL MOUNTED EQUIPMENT. THE INSTALLATION SHALL MEET THE REQUIREMENTS OF INTERNATIONAL BUILDING CODE (IBC) AS IT APPLIES TO ELECTRICAL EQUIPMENT FOR EARTHQUAKE LOADS.
13. CONTRACTOR SHALL REVIEW CODE COMPLIANCE DRAWINGS AND IDENTIFY ALL PENETRATIONS THROUGH FIRE/SMOKE PARTITIONS, FLOOR AND ROOFS. PATCH COMPROMISED PARTITIONS TO MATCH FIRE/SMOKE RESISTANCE RATING AS STATED ON CODE COMPLIANCE DRAWINGS.

GENERAL PROCEDURES:

14. ALL EQUIPMENT SHALL BE AS INDICATED BY THE ENGINEER/ARCHITECT.
15. THE COST INCURRED BY THE ACCEPTANCE OF SUBSTITUTIONS SHALL BE BORNE BY THE CONTRACTOR. PROOF FOR THE EQUALITY OF THE SUBSTITUTIONS SHALL BE BY THE CONTRACTOR AND DIFFERENCES SHALL BE ENUMERATED WITH THE SUBMITTAL. SUBMISSION WITHOUT THE DIFFERENCES NOTED CAN BE GROUNDS FOR REJECTION WITHOUT REVIEW.
16. ELECTRICAL COMPONENTS, INCLUDING BUT NOT LIMITED TO, CONDUCTOR SIZE, OVERCURRENT PROTECTION DEVICE AND DISCONNECT SWITCHES ARE BASED ON THE POWER REQUIREMENTS OF THE EQUIPMENT SHOWN ON THE CONTRACT DOCUMENTS. ALL COSTS (INCLUDING ADDITIONAL DESIGN FEES IF REQUIRED) ASSOCIATED WITH CHANGES TO THESE POWER REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR MAKING THE CHANGE.
17. OBTAIN SHOP DRAWINGS AND WIRING DIAGRAMS FOR THE PROPER INSTALLATION OF RELATED ELECTRICAL WORK.
18. THE CONTRACTOR SHALL REMOVE AND REINSTALL CEILING SYSTEMS AS REQUIRED FOR THE INSTALLATION OF NEW ELECTRICAL WORK AND REPLACE IN KIND, ANY COMPONENTS DAMAGED BY PERSONNEL OR EQUIPMENT DURING PERFORMANCE OF THE WORK.
19. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF DEBRIS GENERATED BY HIS WORK AND WORKERS AT THE END OF EACH WORKING DAY AND FOR GENERAL GOOD HOUSEKEEPING BY HIS WORKERS. ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED REFUSE CONTAINERS.
20. UNLESS OTHERWISE INDICATED ON THE MECHANICAL/FOOD SERVICE SCHEDULES/DRAWINGS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT (I.E., ROOF TOP HVAC UNITS, EXHAUST FANS, VARIABLE AIR VOLUME DEVICES, ETC.)

SITE CONDITIONS/DRAWING COORDINATION:

21. THESE DRAWINGS AND SPECIFICATIONS ILLUSTRATE THE WORK TO BE PERFORMED. THE ENGINEER IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK, OR THE SAFETY ASPECTS OF CONSTRUCTIONS, AND NOTHING ON THESE DRAWINGS EXPRESSED OR IMPLIED CHANGES THIS CONDITION. PRIOR TO BIDDING AND/OR STARTING WORK THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO DETERMINE THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SCHEDULE SITE VISIT WITH CLIENT'S REPRESENTATIVES. ADDITIONALLY, THE CONTRACTOR SHALL FIELD VERIFY ALL SITE DIMENSIONS AND ROOM LAYOUTS. SUBMISSION OF A BID TO PERFORM THIS WORK IS AN ACKNOWLEDGEMENT OF THESE RESPONSIBILITIES, AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE. NO CLAIMS OR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING.
22. THE CLIENT WILL OCCUPY THE SITE AND EXISTING BUILDING DURING THE ENTIRE CONSTRUCTION PERIOD. COOPERATE WITH THE CLIENT DURING CONSTRUCTION OPERATIONS TO AVOID ANY CONFLICTS. PERFORM THE WORK SO AS NOT TO INTERFERE WITH THE CLIENT'S OPERATIONS. SCHEDULE ALL POWER OUTAGES, WITH THE CLIENT'S APPROVAL, FOR OVERTIME ON SUNDAYS AND HOLIDAYS AT NO ADDITIONAL COST TO THE CLIENT.
23. EXISTING PROJECT CONDITIONS INDICATED ARE BASED ON FIELD OBSERVATIONS; EXISTING DESIGN/CONSTRUCTION DOCUMENTS AND EXISTING RECORD DOCUMENTS AND ARE INTENDED TO INDICATE THE SCOPE OF THE WORK AFFECTED BY THIS PROJECT.
24. DRAWINGS SHALL NOT BE SCALED. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND REQUIREMENTS OF THE WORK. ALTHOUGH SIZE AND LOCATION OF EQUIPMENT IS DRAWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY INFORMATION AT THE PROJECT SITE.
25. THE ELECTRICAL CONTRACTOR SHALL MAKE HIS OWN TAKEOFF ON ALL QUANTITIES. IT SHALL BE HIS RESPONSIBILITY, AT HIS COST, TO INCLUDE ALL EQUIPMENT AND MATERIAL IN ORDER TO COMPLY WITH THE INTENT OF THE DRAWINGS.
26. THE CIRCUIT NUMBERS ARE FOR IDENTIFICATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN PANELS.
27. EXISTING CIRCUIT DESIGNATIONS:
    a. ALL REFERENCE TO EXISTING CIRCUIT DESIGNATIONS IS BASED ON PREVIOUS PROJECT DOCUMENTATION. THE CONTRACTOR SHALL CONSULT THE ENGINEER IN THE EVENT THAT ACTUAL CONDITIONS DO NOT COINCIDE WITH THE INDICATED RE-DISTRIBUTION OR OTHER USE OF EXISTING CIRCUITS AS HEREIN INDICATED.
    b. THE TOTAL CONNECTED LOAD FOR ANY GENERAL PURPOSE (PROTECTED AT 20A) BRANCH CIRCUIT WHICH IS RE-DISTRIBUTED AS A PART OF THIS PROJECT SHALL NOT EXCEED 13A.
    c. ANY DEVIATION, AS MAY BE DIRECTED BY THE ENGINEER, FROM THE INDICATED CIRCUIT STRUCTURE SPECIFIED IN THIS DRAWING SET WILL REQUIRE BOTH VERIFICATION BY THE CONTRACTOR THAT THE TOTAL CONNECTED LOAD ON THE ASSOCIATED SUPPLY CONDUCTORS IS WITHIN THE ABOVE SPECIFIED LIMIT AND DOCUMENTATION IN THE PROJECT RECORD (AS-BUILT) DRAWINGS.
28. THE ELECTRICAL INSTALLATION SHOWN IS REPRESENTED DIAGRAMMATICALLY AND INDICATES THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. THE LOCATIONS AND ARRANGEMENTS OF EQUIPMENT, DEVICES, SWITCHBOARDS, PANELBOARDS, PARTITIONS, OPENINGS, ETC. ARE DESIGNED TO SHOW PREFERRED CONFIGURATIONS TO SUIT KNOWN CONDITIONS BUT ARE APPROXIMATE AND ARE SUBJECT TO MODIFICATIONS CAUSED BY STRUCTURAL CONDITIONS AND OTHER EXISTING OR PROPOSED EQUIPMENT. THE LOCATIONS ARE SUBJECT TO SUCH MODIFICATIONS AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO ACCOMMODATE FIELD CONDITIONS AND COORDINATION REQUIREMENTS. CONTRACTOR SHALL FOLLOW THE INTENT OF THE DRAWINGS IN "LAYING OUT" THE WORK AND COORDINATE THE WORK WITH OTHER TRADES TO VERIFY SPACING CONDITIONS. CONTRACTOR SHALL DETERMINE ROUGH-IN LOCATIONS REQUIRED FOR SUCH COORDINATION. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK AND SHALL MAKE SUCH CHANGES WITHOUT EXTRA CHARGE.
29. THE CONTRACT DRAWINGS DEPICT THE APPROXIMATE LOCATION OF ALL REQUIRED EQUIPMENT AND IF SHOWN, THE DIAGRAMMATIC ARRANGEMENT OF PIPING, RACEWAYS, CONDUITS, FEEDERS, CABLES, ETC, HEREIN AFTER REFERRED TO AS "CONDUIT." CONDUIT RUNS, IF SHOWN, HAVE BEEN DEPICTED WITH THE INTENTION OF MOST CLEARLY INDICATING THE PROPOSED ROUTING. ACTUAL RUNS MAY DIFFER IF KEPT WITHIN THE REQUIREMENTS AND PROVISIONS OF THESE SPECIFICATIONS, AND PROVIDING THAT THAT ALL MODIFICATIONS HAVE BEEN SHOWN IN THE SHOP DRAWINGS. CONTRACTOR RESPONSIBLE TO DETERMINE CONDUIT RUNS AND "CLEAR" PIPING, DUCTWORK, ACCESS DOORS, AND OTHER OBSTRUCTIONS AS APPLICABLE. CONTRACTOR SHALL COORDINATE CONDUIT WITH WORK OF OTHER TRADES AND ALTER WHERE NECESSARY TO AVOID INTERFERENCE. SUBMIT FOR APPROVAL, PRIOR TO SCALED INSTALLATION DRAWINGS SHOWING THE LOCATION OF ALL NEW EQUIPMENT/SYSTEMS TO BE INSTALLED AND INDICATING CIRCUITRY. SHOP DRAWINGS SHALL INCLUDE ALL WIRING, PULL BOXES, JUNCTION BOXES, FITTINGS, WIRING DEVICES AND DIMENSIONED CLEARANCES FROM THE STRUCTURE AND EQUIPMENT. COORDINATE SHOP DRAWINGS WITH OTHER TRADES PRIOR TO SUBMISSION.
30. ROUTING FOR FEEDERS, INSTRUMENTATION AND CONTROL CIRCUITS IS NOT SHOWN ON THE PLAN DRAWINGS. IF INDICATED ON THE FLOOR PLANS, THEY EXPRESS THE INTENT OF ROUTING. FINAL LOCATION AND ROUTING SHALL BE SUITED FOR THE CONSTRUCTION OF THE BUILDING AND ESTABLISHED BY THE CONTRACTOR BASED ON THE INSTALLATION CONDITIONS AND SHALL BE VERIFIED IN THE FIELD. ALL FEEDER INFORMATION, CONDUIT TYPES AND INSTALLATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, ELECTRICAL RISER DIAGRAM AND APPROPRIATE PANEL SCHEDULES.
31. ANY CUTTING, PATCHING, OR FINISH REPAIR WORK REQUIRED FOR THE ELECTRICAL INSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
32. WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL ELECTRICAL SERVICES AND OVERHEAD EQUIPMENT TO PROVIDE MAXIMUM HEADROOM POSSIBLE. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING WITH MINIMUM INTERFERENCE WITH OTHER INSTALLATIONS.
33. PROVIDE TEMPORARY POWER AND LIGHTING AS REQUIRED DURING THE ENTIRE DURATION OF DEMOLITION AND CONSTRUCTION UTILIZING THE EXISTING ELECTRICAL SYSTEM AS A SOURCE. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL TEMPORARY POWER AND LIGHTING UPON THE COMPLETION OF THE PROJECT.
34. UNLESS OTHERWISE NOTED, DEFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND RELATIVE POSITIONS OF EQUIPMENT, WALL, CEILING AND FLOOR INFORMATION AND MINOR ARCHITECTURAL DIFFERENCES IN EACH ROOM.
35. WHERE CONFLICTS EXIST, PROVIDE IN THE BID PROPOSAL THE MORE COSTLY ALTERNATIVE.

WORK/TRADE COORDINATION

36. COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICT AND TO PROVIDE CORRECT ROUGH-IN AND CONNECTION FOR EQUIPMENT FURNISHED UNDER TRADES THAT REQUIRE ELECTRICAL CONNECTIONS. INFORM CONTRACTORS OF OTHER TRADES OF THE REQUIRED ACCESS TO AND CLEARANCES AROUND ELECTRICAL EQUIPMENT TO MAINTAIN SERVICEABILITY AND CODE COMPLIANCE.
37. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE SIZE AND RATING OF ALL APPROVED MECHANICAL EQUIPMENT PRIOR TO THE INSTALLATION OF FEEDER AND BRANCH CIRCUIT CONDUCTORS AND OVERCURRENT PROTECTION DEVICES.
38. AC AND REFRIGERATION EQUIPMENT NAMEPLATE RATING: SHORT CIRCUIT AND GROUND FAULT PROTECTION DEVICE RATING SHALL NOT EXCEED THE MANUFACTURER'S VALUES MARKED ON THE EQUIPMENT.
39. SEQUENCE, COORDINATE AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF WORK. GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING IN THE BUILDING. COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATED INSTALLATION OF THE ELECTRICAL EQUIPMENT AND MATERIALS.
40. PROVIDE COORDINATION DRAWINGS FOR ALL REQUIRED ACCESS PANEL LOCATIONS IN GYPSUM CEILING TO ARCHITECT/ENGINEER FOR COORDINATION.
41. THE CONTRACTOR SHALL COORDINATE WORK WITH THE OTHER TRADES TO ENSURE THE MINIMUM SAFE WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT AND TO ENSURE ACCESS TO EQUIPMENT REQUIRING CALIBRATION OR MAINTENANCE (INCLUDING MOTORS, CONTROLS, INSTRUMENTS, PANELS, LIGHTS, VALVES, FILTERS, AND VAV BOXES), WORKING SPACE AND ACCESS SHALL BE SUFFICIENT FOR AN ADULT TO PERFORM MAINTENANCE SAFELY WITHOUT STRADDLING OR REMOVING OBSTRUCTIONS AND SHALL CONFORM TO NEC REQUIREMENTS (I.E., 110.26 & 110.34). WORK THAT ENCROACHES ON WORKING SPACE OR THAT IMPEDES MAINTENANCE SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.

INSTALLATION:

42. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC IN ACCORDANCE WITH ELECTRODE, GROUNDING AND BONDING REQUIREMENTS FOR SERVICE, EQUIPMENT AND ENCLOSURES. INSTALL AN INSULATED EQUIPMENT GROUND CONDUCTOR IN EACH RACEWAY OR CONDUIT. SIZE EQUIPMENT GROUND CONDUCTOR IN ACCORDANCE WITH NEC TABLE 250.122. BOND RACEWAYS AND THE FRAMES AND ENCLOSURES OF MOTORS, BREAKERS, SWITCHES, AND OTHER ELECTRICAL EQUIPMENT TO THE BUILDING GROUNDING SYSTEM. PRECAUTION SHALL BE TAKEN TO ENSURE ADEQUATE GROUND CONTINUITY ALONG THE CONDUIT OR RACEWAY.
43. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT. INSTALL NEUTRAL CONDUCTORS AND GROUND CONDUCTORS INTO ALL SWITCH BOXES. MULTIPLE CIRCUITS SHALL NOT SHARE A COMMON NEUTRAL. NEUTRAL SHALL BE SIZED AS LARGE AS THE PHASE CONDUCTORS. NEUTRAL CONDUCTORS SHALL NOT BE REDUCED IN SIZE.
44. ARRANGE CONNECTIONS FOR SINGLE PHASE CIRCUITS TO ACHIEVE THREE PHASE LOAD BALANCE WITHIN 20% OF THE AVERAGE PHASE LOAD CURRENT. UNGROUNDED CONDUCTORS USING A COMMON NEUTRAL MUST ORIGINATE FROM DIFFERENT PHASES.
45. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER PHASE ROTATION WITH ALL EQUIPMENT THAT USES THREE (3) PHASE ELECTRIC LOADS.
46. PHASE ROTATION CHECK: ON MULTI-PHASE EQUIPMENT, PERFORM A PHASE ROTATION CHECK PRIOR TO ENERGIZING THE EQUIPMENT. USE KNOPP K-3 OR EQUIVALENT DEVICE WITH RED OR "A" LEAD CONNECTED TO PHASE A, WHITE OR "B" LEAD CONNECTED TO PHASE B, AND BLUE OR "C" LEAD CONNECTED TO PHASE C. NOTE THE PHASE ROTATION AND ANNOTATE TEST DOCUMENTATION WITH DEVICE USED, MANNER CONNECTED, ROTATION OBSERVED, DATE OF TEST, AND NAME OF CRAFTSMAN. DO NOT ENERGIZE EQUIPMENT UNLESS OBSERVED ROTATION MATCHES THE REQUIREMENTS OF THE EQUIPMENT
47. CONTRACTOR SHALL SUPPLY ALL LABOR, POWER CABLES, CONDUIT BOXES, FITTINGS, WIRING MATERIALS, HARDWARE, SUPPORTS, AND MISCELLANEOUS ITEMS FOR A COMPLETE ELECTRICAL INSTALLATION AND CONNECTION OF THE ELECTRICAL WORK REQUIRED, EXCEPT THAT THE PROVISION FOR OWNER SUPPLIED EQUIPMENT SHALL BE ONLY BE COMPLETED TO THE POINT INDICATED ELSEWHERE ON THE DRAWINGS.
48. THE CONTRACTOR/INSTALLER SHALL USE A CALIBRATED TORQUE TOOL TO ACHIEVE THE INDICATED TORQUE VALUE WHEN THE TIGHTENING TORQUE NUMERIC VALUES IDENTIFIED ON THE ELECTRICAL EQUIPMENT OR IN THE INSTALLATION INSTRUCTIONS. IN THE ABSENCE OF CONNECTOR OR THE EQUIPMENT MANUFACTURER'S RECOMMENDED TORQUE VALUES, THE TABLES IN INFORMATIVE ANNEX I MAY BE USED TO CORRECTLY TIGHTEN SCREW-TYPE CONNECTIONS FOR POWER AND LIGHTING CIRCUITS. INFORMATIVE ANNEX I REPRESENTS THE "RECOMMENDED TIGHTENING TORQUE TABLES FROM UL STANDARD 486A-B."
49. ALL CABLES, NOT WITHIN CONDUIT (EX., MC TYPE, FIRE ALARM, PA), ROUTED WITHIN THE CEILING CAVITY MUST BE SECURED USING BRIDLE RINGS, J-HOOKS, OR OTHER APPROPRIATE MEANS. THE CABLE MUST NOT LAY ON DROPPED CEILING PANELS, BE FASTENED TO EXISTING ELECTRICAL CONDUITS, STEAM PIPES, SPRINKLER PIPES, INSULATED PIPES, OR BE ROUTED IN SUCH A FASHION AS TO OBSTRUCT ACCESS HATCHES, DOORS, UTILITY ACCESS PANELS, MECHANICAL SERVICE WORK AREAS OR FITTINGS AND SHALL NOT BE ROUTED THROUGH FIRE DOORS, VENTILATING SHAFTS, OR GRATES.
    a. UNLESS OTHERWISE PROVIDED, MC CABLES SHALL BE SECURED AT INTERVALS NOT EXCEEDING 6'. CABLES CONTAINING FOUR OR FEWER CONDUCTORS SIZED NO LARGER THAN 10 AWG SHALL BE SECURED WITHIN 12" OF EVERY BOX, CABINET, FITTING, OR OTHER CABLE TERMINATION.
    b. TYPE MC CABLE SHALL BE PERMITTED TO BE UNSUPPORTED WHERE THE CABLE: (A) IS FISHED BETWEEN ACCESS POINTS THROUGH CONCEALED SPACES IN FINISHED BUILDINGS OR STRUCTURES AND SUPPORTING IS IMPRACTICAL; OR (B) IS NOT MORE THAN 6' IN LENGTH FROM THE LAST POINT OF CABLE SUPPORT TO THE POINT OF CONNECTION TO LUMINAIRES OR OTHER ELECTRICAL EQUIPMENT AND THE CABLE AND POINT OF CONNECTION ARE WITHIN AN ACCESSIBLE CEILING. TYPE MC CABLE FITTINGS SHALL BE PERMITTED AS A MEANS OF CABLE SUPPORT.
50. ALL CABLE TRAYS AND ELECTRICAL CONDUITS SHALL BE INDEPENDENTLY SUPPORTED AND BRACED INDEPENDENTLY OF THE CEILING.
51. ALL NEW WIRING IS TO BE RUN CONCEALED WHEREVER POSSIBLE. WHEN NOT ROUTED CONCEALED IN THE CEILING/WALL CAVITIES CONDUCTORS SHALL BE IN A SURFACE MOUNTED METALLIC RACEWAY. IN PUBLIC SPACES, RACEWAY SHALL BE WIREMOLD OR EQUAL. IN UTILITY SPACES, RACEWAY SHALL BE METALLIC CONDUIT (REFER TO "APPLICATION OF RACEWAYS" FOR ADDITIONAL INFORMATION). ANY LOCATIONS THAT DO NOT HAVE ACCESSIBLE OR DROPPED CEILINGS WILL REQUIRE THE USE OF SURFACE MOUNTED METALLIC RACEWAYS OR METALLIC CONDUIT. PROVIDE PULL-BOXES (SIZE PER CODE) AND LOCATE IN RUNS AS REQUIRED. NO EXPOSED CABLE MAY BE INSTALLED.
52. SURFACE MOUNTED METALLIC RACEWAY SHALL MEET THE FOLLOWING CRITERIA AND CONFORM TO NEC ARTICLE 386:
    a. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR SYSTEM COMPONENTS AND APPROVED SHOP DRAWINGS. COORDINATE INSTALLATION WITH ADJACENT PLATE WORK TO ENSURE PROPER CLEARANCES AND TO PREVENT ELECTRICAL HAZARDS.
    b. INSTALL IN ACCORDANCE WITH COMPLETE SYSTEM INSTRUCTION SHEETS.
    c. INSTALL ENCLOSURES TO BE MECHANICALLY CONTINUOUS AND CONNECTED TO ALL ELECTRICAL OUTLETS, BOXES, DEVICE MOUNTING BRACKETS, AND CABINETS, IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION SHEETS.
    d. INSTALL ENCLOSURES TO BE ELECTRICALLY CONTINUOUS AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE FOR PROPER GROUNDING.
    e. MECHANICAL SECURITY: RACEWAY SYSTEMS SHALL BE MECHANICALLY CONTINUOUS AND CONNECTED TO ALL ELECTRICAL OUTLETS, BOXES, DEVICE MOUNTING BRACKETS, AND CABINETS, IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION SHEETS.
    f. ELECTRICAL SECURITY: METAL RACEWAY SHALL BE ELECTRICALLY CONTINUOUS AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE FOR PROPER GROUNDING.
    g. RACEWAY SUPPORT: RACEWAY SHALL BE SUPPORTED BY 2-HOLE STRAPS AT INTERVALS NOT EXCEEDING 5 FEET OR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION SHEETS.
    h. ACCESSORIES: PROVIDE ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION, INCLUDING INSULATED BUSHINGS AND INSERTS WHERE REQUIRED BY MANUFACTURER.
    i. UNUSED OPENINGS: CLOSE UNUSED RACEWAY OPENINGS USING MANUFACTURER'S RECOMMENDED ACCESSORIES.
53. WHERE PVC RACEWAY IS INDICATED TO BE INSTALLED EXPOSED IN AN EXTERNAL ENVIRONMENT, EXPANSION FITTINGS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF NEC 352.44. EXPANSION FITTINGS SHALL BE INSTALLED ON ALL PVC RUNS GREATER THAN 6'.
54. ALL OPENINGS AND PENETRATIONS SHALL BE SEALED UPON COMPLETION OF THE ELECTRICAL INSTALLATION TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH OPENINGS. SEAL AROUND CONDUIT AND RACEWAY PENETRATIONS THROUGH INTERIOR WALLS AND FLOOR SEPARATING AREAS TO RESTORE ORIGINAL FIRE RATING; USE A UL CLASSIFIED FIRE SEALANT. SEAL PENETRATIONS THROUGH ROOF AND EXTERIOR WALLS TO MAKE WATERPROOF. REQUEST INSPECTION OF FIRE SEAL BY ELECTRICAL INSPECTOR FROM AUTHORITY HAVING JURISDICTION BEFORE AND AFTER PLACEMENT OF FIRE SEAL MATERIALS. ALL OPENINGS SHALL BE COORDINATED WITH THE OTHER TRADES TO LIMIT INTERFERENCE AND OBSTRUCTION.
55. LIMIT THE USE OF ELECTRICAL METALLIC TUBING (EMT) TO WHERE IT WILL NOT BE SUBJECT TO PHYSICAL DAMAGE OR CORROSION. USE INTERMEDIATE METAL CONDUIT (IMC) OR RIGID GALVANIZED STEEL CONDUIT (RGS) WHERE RACEWAYS ARE EMBEDDED IN CONCRETE OR EXPOSED TO PHYSICAL DAMAGE. USE MINIMUM 3/4" CONDUIT EXCEPT AS FOLLOWS: 1/2" CONDUIT MAY BE USED FOR 20 AMP GENERAL LIGHT AND POWER CIRCUITS AND FOR CONTROL CIRCUITS; 3/8" FLEXIBLE METAL CONDUIT MAY BE USED TO CONNECT LIGHT FIXTURES IN SUSPENDED CEILINGS. USE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR FLEXIBLE CONNECTION TO EQUIPMENT IN MECHANICAL ROOMS OR OUTDOORS.
56. WHERE RACEWAYS CONTAIN INSULATED CONDUCTORS 4 AWG AND LARGER THAT ENTER AN ENCLOSURE, THE CONDUCTORS MUST BE PROTECTED FROM ABRASION DURING AND AFTER INSTALLATION BY A FITTING THAT PROVIDES A SMOOTH, ROUNDED INSULATING SURFACE, SUCH AS AN INSULATING BUSHING AS PER NEC 300.4(G).
57. INSTALL OUTDOOR EQUIPMENT TO BE WEATHERPROOF (NEMA 3R).
58. ALL PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WATERTIGHT. FURNISH AND INSTALL SEALS FOR CONDUIT AND RACEWAYS TO SEAL THE ANNULAR SPACE BETWEEN THE RACEWAY AND THE BUILDING PENETRATION. FURNISH AND INSTALL CONDUIT SEALING BUSHINGS AS MANUFACTURED BY OZ/GENDY TYPE CSMI OR CSMC OR APPROVED EQUAL. FURNISH AND INSTALL CONDUIT SEALING BUSHINGS AS MANUFACTURED BY OZ/GENDY TYPE CSBG OR APPROVED EQUAL TO SEAL THE CONDUCTORS INSIDE THE RACEWAY. COORDINATE SUBMITTAL SUBMISSION WITH CONDUCTOR SIZE, QUANTITY AND INSULATION TYPE.

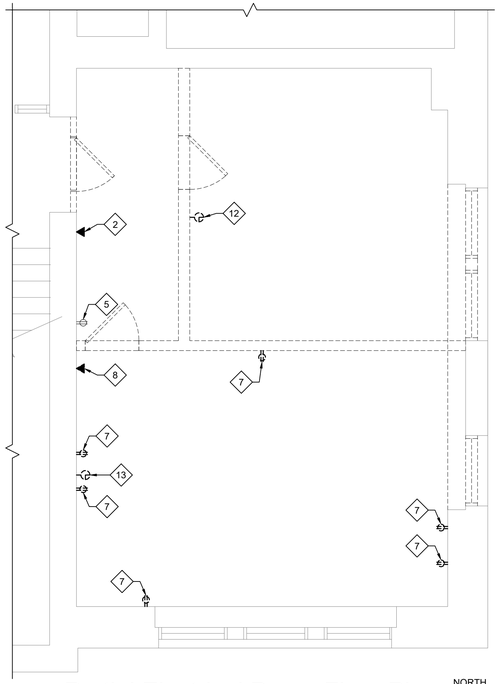
WIRE INFORMATION:

59. ALL WIRING SHALL BE COPPER CONDUCTOR, 600 VOLTS IN EMT RACEWAY WITH APPROVED FITTINGS UNLESS OTHERWISE INDICATED. FEEDER AND BRANCH CIRCUIT WIRING SHALL BE MINIMUM #12 AWG UNLESS OTHERWISE INDICATED. FEEDER AND BRANCH CIRCUIT WIRING LARGER THAN #10 AWG SHALL BE STRANDED CONDUCTOR: #10 AWG AND SMALLER, SHALL BE SOLID CONDUCTOR. CONTROL WIRING SHALL BE #18 AWG THWN. TYPE OF INSULATION AS FOLLOWS UNLESS NOTED OTHERWISE:
    a. THHN/THWN INSULATION FOR #4 AWG AND SMALLER
    b. THW OR THHN/THWN INSULATION FOR #2 AWG AND LARGER
    c. THW USED FOR ALL PANEL FEEDER AND SERVICE CONDUCTORS
    d. XHHW-2 INSULATION TYPE SHALL BE USED WHERE CONDUCTORS ARE INSTALLED IN CONDUITS EXPOSED TO THE WEATHER.
60. USE THE FOLLOWING CONDUCTOR COLOR CODES:

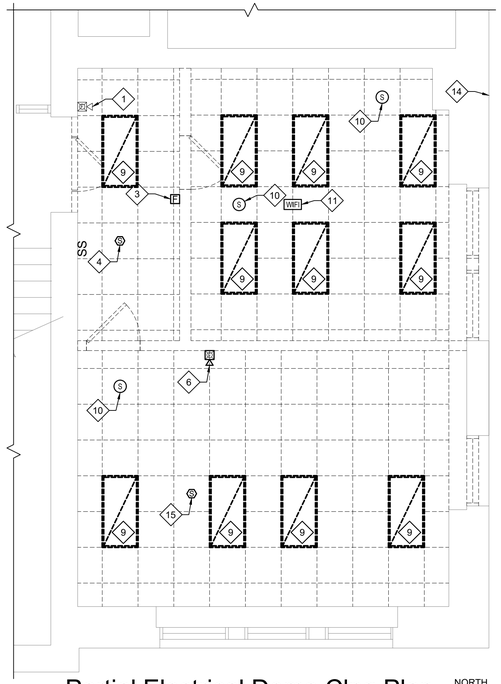
	208Y/120V	480Y/277V
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GRAY
EQUIP. GROUND	GREEN	GREEN

CIRCUIT BREAKERS:

61. USE 600 VAC CIRCUIT BREAKERS IN 480V AND 480Y/277V SWITCHBOARDS, PANELBOARDS AND MOTOR CONTROL CENTERS.
62. PROVIDE CIRCUIT BREAKERS WITH UL LISTED INTERRUPTING RATING (RMS SYMMETRICAL AMPERES) GREATER THAN THE AVAILABLE FAULT CURRENT SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM. "SERIES RATED" EQUIPMENT SHALL NOT BE ACCEPTED.
63. INSTALL UL LISTED CIRCUIT BREAKER PADLOCKING DEVICES FOR SERVICE AND MAINTENANCE PERSONNEL ON ALL OVER CURRENT PROTECTION DEVICES AT THE MAIN BUILDING PANEL (MDP OR EQUIVALENT). THE DEVICE MUST HAVE PROVISIONS FOR PLACEMENT OF A LOCK ON IT TO SECURE THE DEVICE IN THE OFF POSITION. THE LOCK-OUT DEVICE MUST BE PART OF THE DISCONNECT ASSEMBLY AND MUST REMAIN IN PLACE AFTER THE PADLOCK IS REMOVED, WHETH



1 E1.01 Partial Electrical Demo Floor Plan
1/4" = 1'-0"



2 E1.01 Partial Electrical Demo Clng Plan
1/4" = 1'-0"

Demo. Elec. Key Notes

SYMBOL INDICATES DEMOLITION KEY NOTE

1. EXISTING HORN/STROBE TO REMAIN. PROTECT DURING CONSTRUCTION.
2. EXISTING TELEPHONE TO BE RELOCATED. EXTEND WIRING TO NEW LOCATION. REFER TO DRAWING E2.01 FOR ADDITIONAL INFORMATION.
3. EXISTING MANUAL PULL STATION TO BE RELOCATED. EXTEND WIRING TO NEW LOCATION. REFER TO DRAWING E2.01 FOR ADDITIONAL INFORMATION.
4. EXISTING SMOKE DETECTOR TO BE RELOCATED. EXTEND WIRING TO NEW LOCATION. REFER TO DRAWING E2.01 FOR ADDITIONAL INFORMATION.
5. EXISTING RECEPTACLE. EXTEND BOX AND CONDUCTORS TO NEW WALL SURFACE. REPLACE EXISTING RECEPTACLE WITH A GFCI RECEPTACLE. REFER TO DRAWING E2.01 FOR ADDITIONAL INFORMATION.
6. EXISTING HORN/STROBE TO BE RELOCATED. EXTEND WIRING TO NEW LOCATION. REFER TO DRAWING E2.01 FOR ADDITIONAL INFORMATION.
7. EXISTING RECEPTACLE TO BE REMOVED. REMOVE CONDUCTORS, WIREMOLD, AND CONDUITS BACK TO SOURCE.
8. EXISTING DATA/PHONE JACK TO BE REMOVED. REMOVE CONDUCTORS, WIREMOLD, AND CONDUITS BACK TO SOURCE.
9. EXISTING LIGHT FIXTURE & SWITCHING TO BE REMOVED. REMOVE CONDUCTORS, WIREMOLD, AND CONDUITS BACK TO SOURCE.
10. EXISTING CEILING MOUNTED SPEAKER TO BE RELOCATED. EXTEND WIRING TO NEW LOCATION. REFER TO DRAWING E2.01 FOR ADDITIONAL INFORMATION.
11. EXISTING WIRELESS ACCESS POINT TO BE RELOCATED. EXTEND WIRING TO NEW LOCATION. REFER TO DRAWING E2.01 FOR ADDITIONAL INFORMATION.
12. EXISTING CLOCK TO BE REMOVED. REMOVE CONDUCTORS, WIREMOLD, AND CONDUITS BACK TO SOURCE. TURN CLOCK OVER TO OWNER.
13. EXISTING CLOCK. RELOCATE TO NEW WALL SURFACE. EXTEND CONDUCTORS AND BACK BOX AS REQUIRED. REFER TO DRAWING E2.01 FOR ADDITIONAL INFORMATION.
14. EXISTING SECURITY CAMERA (2nd FLOOR) TO BE RELOCATED. EXTEND APPROX. 25' HORIZONTALLY.
15. EXISTING SMOKE DETECTOR TO BE RELOCATED AND REPLACED WITH A FIXED TEMPERATURE HEAT DETECTOR. NEW DETECTOR SHALL BE UL LISTED FOR USE WITH THE EXISTING FACP & SLC LOOP. EXTEND WIRING TO NEW LOCATION. REFER TO DRAWING E2.01 FOR ADDITIONAL INFORMATION.

Electrical General Demolition Notes

GENERAL PROJECT INFO:

1. THE DEMOLITION DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL INTENT AND SCOPE. PLANS DO NOT ATTEMPT TO SHOW ALL ELECTRICAL DEMOLITION ITEMS. UNLESS OTHERWISE NOTED, THE DEVICES SHOWN ARE FOR INFORMATION PURPOSES. THE CONTRACTOR SHALL FIELD VERIFY ALL DEMOLITION ITEMS AND THE EXTENT OF DEMOLITION WORK, CONDITIONS UNDER WHICH DEMOLITION IS TO BE ACCOMPLISHED, ALONG WITH THE KIND AND AMOUNT OF MATERIALS BEING REMOVED AND PROVIDE FOR THE REMOVAL OF ALL DEVICES ACCORDINGLY PRIOR TO BID.
2. THE CONTRACTOR SHALL INCLUDE ALL LABOR AND MATERIALS IN THE BASE BID, INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT, AND WIRE TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES. SYSTEMS THAT ARE TO REMAIN TEMPORARY OR PERMANENT AND REQUIRE THE SHUTDOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN THE BASE BID.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE SEQUENCE OF ALL WORK AND SHALL INCLUDE IN THE BASE BID ALL LABOR AND MATERIALS REQUIRED FOR THE EXTENSIONS, RE-ROUTING AND RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS, AND CABLING TO MAINTAIN THE OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION AND CONSTRUCTION PHASES.
4. THE CONTRACTOR SHALL REPORT TO THE CLIENT ANY AND/OR ALL CONDITIONS THAT MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK OF THIS CONTRACT.
5. THE CONTRACTOR SHALL EXECUTE ALL WORK WITHIN THE REGULATIONS OF THE BUILDING FOR DEMOLITION AND REMOVAL OF DEBRIS. OVERTIME WORK REQUIRED WILL BE AT NO EXTRA COST TO THE CLIENT.
6. ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO ITS POWER SOURCE OF ORIGINATION UNLESS OTHERWISE NOTED ("U.O.N.") BY EXISTING TO REMAIN ("E"). ALL DISCONNECTED AND REMOVED ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OFF SITE IN AN APPROVED METHOD.
7. THE CONTRACTOR SHALL ALWAYS PROTECT THE PROPERTY OF THE CLIENT AND THE BUILDING OWNER, INCLUDING BUT NOT LIMITED TO WINDOWS, FINISHES, PUBLIC TOILETS, ELEVATORS, DOORS, BUCKS, ELECTRICAL AND AIR CONDITIONING EQUIPMENT, CONVECTOR ENCLOSURES, ETC.
8. UNLESS NOTED OTHERWISE, ALL THE EXISTING ELECTRICAL EQUIPMENT CURRENTLY LOCATED IN THE AREAS OF DEMOLITION, WHETHER SPECIFICALLY INDICATED ON THIS DRAWING OR NOT, SHALL BE DISCONNECTED AND REMOVED FROM SERVICE. THE OWNER HAS THE FIRST RIGHT OF REFUSAL ON ALL REMOVED ITEMS. ALL ITEMS NOT WANTED BY THE OWNER SHALL BE PROPERLY DISPOSED OF OFFSITE BY THE CONTRACTOR IN ACCORDANCE WITH THE LAW. CARE SHALL BE TAKEN TO MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING ELECTRICAL DEVICES TO REMAIN. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT AREAS OF DEMOLITION.
9. RELOCATE OR REMOVE ALL ELECTRICAL DEVICES IN ACCORDANCE WITH THE APPLICABLE CODES.
10. DO NOT DISABLE OR DISRUPT BUILDING FIRE OR LIFE SAFETY SYSTEMS WITHOUT WRITTEN PERMISSION FROM THE OWNER. IN ALL CASES, PERMISSION SHALL HAVE BEEN GRANTED NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO THE INTENDED INTERRUPTION.
11. BEFORE STARTING WORK, THE ELECTRICAL CONTRACTOR SHALL CHECK ALL EXISTING DEVICES, LIGHT FIXTURES, EQUIPMENT, ETC. THAT ARE NOTED OR REQUIRED TO BE REUSED TO SATISFY HIMSELF THAT THEY ARE OPERATING PROPERLY. SHOULD ANY OF THE ITEMS NOT BE OPERATING PROPERLY, THE CONTRACTOR SHALL REPORT SAME TO THE ENGINEER AND AWAIT HIS DIRECTIONS. CONTRACTORS THAT DO NOT COMPLY WITH THE ABOVE WILL BE RESPONSIBLE FOR PROVIDING OPERATIONAL ITEMS AT THEIR EXPENSE.
12. THE CONTRACTOR SHALL FIELD INVESTIGATE THE EXISTING ELECTRICAL & LOW VOLTAGE SYSTEMS INSTALLATIONS. ALL EXISTING INSTALLATIONS IN THE RENOVATION AREAS THAT ARE TO REMAIN BUT ARE NOT CURRENTLY IN COMPLIANCE WITH CURRENT CODES SHALL BE CORRECTED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: UN-SUPPORTED WIRE, CONDUIT AND JUNCTION BOXES LAYING ON TOP OF CEILING TILES, WIRE, CONDUIT AND/OR JUNCTION BOXES SUPPORTED ONLY BY TIE-WIRE. RAISE AND SUPPORT CONDUIT WITH STRAP PER SPECS. RAISE AND SUPPORT WIRE WITH BRIDLE RINGS, J-HOOKS, OR OTHER APPROPRIATE MEANS. PROVIDE NEW CONDUIT/WIRE AS REQUIRED. FIXTURES IMPROPERLY SUPPORTED OR INADEQUATELY SUPPORTED BY DEVICE BOXES - PROVIDE PROPER SUPPORT PER N.E.C.

WORK/TRADE COORDINATION:

13. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE MECHANICAL EQUIPMENT DEMOLITION WITH THE MECHANICAL CONTRACTOR AND MECHANICAL DEMOLITION PLANS AND GENERAL CONSTRUCTION DEMOLITION WITH THE GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION PLANS FOR ALL EQUIPMENT TO BE DEMOLISHED AND SCHEDULE TIME FOR ELECTRICAL DEMOLITION.
14. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT LEFT AFTER WALL DEMOLITION, INCLUDING CONDUIT, SWITCH BOXES, PLATES, BRIDGES, OR ANY OTHER TELEPHONE OR ELECTRIC WIRING AND EQUIPMENT. DISCONNECT ALL WIRING AT PANELS AND REMOVE OLD WIRING FROM THE PLENUM.
15. TEMPORARILY RELOCATE ELECTRICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE THE CONSTRUCTION SCHEDULE. ALL AREAS NOT UNDER CONSTRUCTION MUST BE KEPT OPERATIONAL DURING CONSTRUCTION. TO ACCOMPLISH THIS, PROVIDE THE NECESSARY TEMPORARY ELECTRICAL SERVICES. REMOVE TEMPORARY DEVICES UPON COMPLETION OF THE PROJECT.
16. AS PART OF THE BASE BID, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRIC POWER REQUIRED FOR CONSTRUCTION ACTIVITIES OF ALL PROJECT DIVISIONS. ALL TEMPORARY BRANCH CIRCUITS SHALL BE SUPPLIED BY CIRCUITS PROTECTED BY GROUND FAULT CIRCUIT BREAKERS. ALL TEMPORARY BRANCH CIRCUITS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 590.
    a. THE AE WILL REVIEW COMPLAINTS CONCERNING POWER DISTRIBUTION OR DEVICES AVAILABLE IN A SPECIFIC AREA OR AREAS OF THE PROJECT. IF DIRECTED BY THE AE, THE CONTRACTOR SHALL PROVIDE ADDITIONAL POWER DISTRIBUTION OR CONNECTION DEVICES REQUIRED UNDER THIS SECTION AT NO ADDITIONAL COST.
17. AS PART OF THE BASE BID, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING WITH LOCAL SWITCH FOR GENERAL ILLUMINATION AND TASK ILLUMINATION FOR THE GENERAL CONTRACTOR, OTHER PRIME CONTRACTORS, AND FOR ALL SUB-CONTRACTORS FOR THE DURATION OF THE CONSTRUCTION. LIGHTING LEVELS PROVIDED ARE TO BE IN COMPLIANCE WITH APPLICABLE WORKPLACE STANDARDS. ALL TEMPORARY LIGHTING SHALL BE SUPPLIED BY CIRCUITS PROTECTED BY GROUND FAULT CIRCUIT BREAKERS. ALL TEMPORARY LIGHTING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 590.
    a. THE AE WILL REVIEW COMPLAINTS CONCERNING LIGHTING LEVELS AND/OR LIGHTING QUALITY IN A SPECIFIC AREA OR AREAS OF THE PROJECT. IF DIRECTED BY THE AE, THE CONTRACTOR SHALL PROVIDE ADDITIONAL LUMINARIES AND/OR ADDITIONAL DISTRIBUTION WIRING REQUIRED AT NO ADDITIONAL COST.
18. AT THE CONCLUSION OF THE CONSTRUCTION ACTIVITIES REMOVE ALL WIRING, BOTH EXPOSED AND CONCEALED, USED FOR TEMPORARY LIGHTING AND POWER DISTRIBUTION.

DEMOLITION REQUIREMENTS:

19. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED, WHICH ARE CONCEALED IN EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM THE CONDUIT.
20. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.
21. WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK TO THE LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE, OR PANEL.
22. NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
23. EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED. THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
24. COORDINATE WITH THE OWNER PRIOR TO THE START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS, WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH THE OWNER ONE WEEK BEFORE THE PLANNED POWER INTERRUPTION
25. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, LIGHT FIXTURES, ETC. HAVE NOT BEEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. THE ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.
26. REMOVE ABANDONED ELECTRICAL EQUIPMENT, DEVICES AND WIRING (I.E., DISTRIBUTION EQUIPMENT, RECEPTACLES, DATA PORTS, RACEWAY SYSTEMS) BACK TO THE SOURCE PANELBOARD, SWITCHBOARD, SWITCHGEAR, COMMUNICATIONS CLOSET, OR CABINET. ABANDONED WIRING AND RACEWAYS CAN RESULT FROM ACTIONS THAT INCLUDE THE FOLLOWING:
    a. EQUIPMENT IS REMOVED OR RELOCATED.
    b. FIXTURES ARE REMOVED OR RELOCATED.
    c. SYSTEM IS NO LONGER USED.
    d. THERE IS NO DEMONTABLE NEAR TERM FUTURE USE FOR THE EXISTING CIRCUIT OR RACEWAY SYSTEM.
27. UNUSED ELECTRICAL EQUIPMENT AND MATERIAL SHOULD ONLY BE LEFT IN PLACE IF ONE OR MORE OF THE FOLLOWING CONDITIONS EXIST:
    a. THE REMOVAL REQUIRES THE DEMOLITION OF OTHER STRUCTURES OR EQUIPMENT THAT IS STILL IN USE. AN EXAMPLE IS CONDUIT EMBEDDED IN WALLS OR DUCTBANKS.
    b. THE COST OF REMOVAL IS EXCESSIVE DUE TO HAZARDS, CONSTRUCTION METHODS, OR RESTRICTED ACCESS. THE ENGINEER SHALL MAKE A FINAL DETERMINATION FOR THIS CONDITION.
    c. IF EITHER OF THE ABOVE TWO CASES EXIST, REMOVE THE CONDUITS, INCLUDING THOSE ABOVE ACCESSIBLE CEILINGS, TO THE POINT THAT BUILDING CONSTRUCTION, EARTH, OR PAVING COVERS THEM. CUT CONDUIT BENEATH OR FLUSH WITH BUILDING CONSTRUCTION OR PAVING. PLUG, CAP, OR SEAL THE REMAINING UNUSED CONDUITS. INSTALL BLANK COVERS FOR ABANDONED BOXES AND ENCLOSURES NOT REMOVED.
28. INVENTORY EACH PANELBOARD WHERE CIRCUITS ARE INDICATED TO BE REUSED. SEQUENTIALLY CONSOLIDATE EXISTING CIRCUITS WITHIN EACH PANELBOARD WITH REGARD TO AREA SERVED. MAXIMIZE CAPACITY FOR SERVICE TO THE PROJECT AREA BY INCLUDING EXISTING SPARES WITH THE GROUP OF CIRCUITS BREAKERS TO BE DISCONNECTED AS A RESULT OF THIS SELECTIVE DEMOLITION. PREPARE A CURRENT DIRECTORY, POST DEMOLITION, FOR EACH PANELBOARD AS THE BASE UPON WHICH THE FINAL DIRECTORIES WILL BE COMPILED.

EXTENSION/CONTINUITY:

29. REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.
30. EXTEND EXISTING EQUIPMENT CONNECTIONS USING MATERIALS AND METHODS COMPATIBLE WITH THE EXISTING ELECTRICAL INSTALLATION AND IDENTIFIED IN THE ELECTRICAL SPECIFICATIONS.
31. WHEN RELOCATION OR REMOVAL OF AN ELECTRICAL DEVICE INTERRUPTS THE CONTINUITY OF A DOWNSTREAM CIRCUIT OR DEVICE TO REMAIN, REROUTE/MODIFY THE CIRCUIT AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY. PROVIDE NEW JUNCTION BOXES, PULLBOXES, RACEWAYS, WIRING, ETC., AS REQUIRED.
32. WHERE AN EXISTING DEVICE IS REMOVED BUT THE RACEWAY AND BOX REMAINS FOR CIRCUIT CONTINUITY, PROVIDE AN APPROPRIATE BLANK COVER PLATE OF MATERIAL AND FINISH TO MATCH THE COVER PLATES OF THE DEVICES IN THAT ROOM.
33. IF THE CONTINUITY OF THE NEUTRAL CONDUCTOR OF A MULTIWIRE CIRCUIT IS INTERRUPTED (OPEN), THE RESULTANT OVER OR UNDER VOLTAGE CAN CAUSE A FIRE AND/OR DESTRUCTION OF ELECTRICAL EQUIPMENT. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PRECLUDE THE INTERRUPTION OF NEUTRAL CONDUCTOR ON A MULTIWIRE CIRCUIT.
34. NON-DEMOLITION AREAS: DEMOLITION WORKS SHALL NOT AFFECT AREAS NOT INCLUDED IN DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUITY OF ALL SERVICES IN NON-DEMOLITION AREAS. ALL SERVICES SHALL BE MAINTAINED AT ALL TIMES. MAINTAIN SERVICE BY EXTENDING, RE-ROUTING AND/OR RECONNECTING ANY CIRCUITS AFFECTED BY DEMOLITION. PROVIDE ADDITIONAL CONDUIT/WIRE AS REQUIRED TO MAINTAIN SERVICE. CIRCUITS IN NON-DEMOLITION AREAS THAT ARE CONNECTED TO DEMOLISHED PANELS AND/OR CIRCUITS SHALL BE RE-CIRCUITED TO THE EXISTING PANELS. PROVIDE TEMPORARY POWER AS REQUIRED DURING CHANGE-OVER TO MAINTAIN CONTINUOUS SERVICE. PROVIDE TEMPORARY POWER FOR ALL RELOCATED CIRCUITS AS REQUIRED TO MAINTAIN CONTINUOUS SERVICE.
35. WHERE EXISTING OUTLETS ARE SHOWN TO REMAIN OR BE RELOCATED TO A NEW WALL SURFACE, PERFORM THE FOLLOWING:
    a. PROVIDE ADDITIONAL CONDUIT, WIRING, ETC., NECESSARY.
    b. PROVIDE NEW WIRING DEVICE AND FACEPLATE.

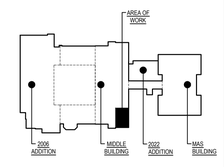
PATCHING/REPAIRING:

36. RESTORE THE ORIGINAL FIRE RATING OF FLOORS, WALLS, AND CEILINGS AFTER ELECTRICAL DEMOLITION USING A UL CLASSIFIED FIRE SEALANT.
37. EXCEPT FOR AREAS WHERE PARTITIONS OR CEILINGS ARE TO BE DEMOLISHED OR WHERE NEW AIR CONDITIONING OR ELECTRIC IS TO BE INSTALLED, CONTRACTOR SHALL REPLACE TO THE EXISTING CONDITION IN AREA OF DISTURBED CEILING. ANY WATER DAMAGED OR BROKEN CEILING TILES AS THE RESULT OF CONTRACTOR'S DEMOLITION SHALL ALSO BE REPLACED.
38. UPON COMPLETION OF THE DEMOLITION WORK, THE CONTRACTOR SHALL PROVIDE THAT ALL AREAS BE LEFT BROOM CLEAN.
39. FURNISH AND INSTALL KNOCKOUT PLUGS ON ALL EXISTING PANELS, EQUIPMENT, AND OUTLET BOX OPENINGS CREATED BY THE REMOVAL OR RELOCATION OF EXISTING RACEWAYS.
40. WHERE AN EXISTING ELECTRICAL DEVICE, EQUIPMENT, ETC., IS BEING REMOVED FROM AN EXISTING WALL AND THAT WALL IS TO REMAIN CONTRACTOR SHALL PATCH EXISTING WALL TO ARCHITECTS SATISFACTION.

HAZARDOUS MATERIAL DISPOSAL:

41. DISCONNECT AND REMOVE ALL BALLASTS FROM FLUORESCENT LIGHT FIXTURES THAT DO NOT HAVE A LABELS STATING "BALLAST DOES NOT CONTAIN PCBS" OR SIMILAR LABEL (BALLAST MAY CONTAIN PCBS). PLACE PCB BALLASTS IN D.O.T. APPROVED CONTAINERS. PROPERLY DISPOSE OF CONTAINERS WITH A FEDERALLY APPROVED DISPOSAL CONTRACTOR. DISPOSAL SHALL INVOLVE SEGREGATION OF COMPONENTS FOR RECYCLING AND INCINERATION OF PCB CONTENTS. ALL DISPOSAL DOCUMENTATION SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT. CONTRACTOR SHALL MAINTAIN AN OWNER APPROVED LOG SHEET FOR EACH RUN.
42. REMOVE ALL MERCURY-CONTAINING LAMPS, DO NOT BREAK OR CRUSH. RETAIN SERVICES OF A STATE APPROVED LAMP RECYCLING FACILITY ABLE TO ACCEPT WASTE D009. COORDINATE PACKAGING REQUIRED AND PACKAGE, SECURE, AND DELIVER LAMPS AS REQUIRED BY THE SELECTED RECYCLING FACILITY TO INSURE MINIMUM LAMP BREAKAGE. MINIMUM OF 95% OF LAMP MATERIAL MUST BE SHIPPED INTACT. CONTRACTOR MUST COMPLY WITH ALL REPORTING AND PAPERWORK REQUIREMENTS OF STATE LAWS REGARDING THE HANDLING, TRANSPORTATION, AND DISPOSAL OF HAZARDOUS WASTE INCLUDING BUT NOT LIMITED TO FILING THE REQUIRED PAPERWORK AND MANIFEST WITH THE STATE AND OWNERS AS REQUIRED BY LAW. ALL DISPOSAL DOCUMENTATION SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.

MAMARONECK AVENUE SCHOOL



Key Plan
NOT TO SCALE
PROJECT NORTH

NYSED PROJECT # 66-07-01-03-0-004-033

Date	12/20/22
Checked	BH
Drawn	MH

MICHAEL J. McGOVERN, R.A.
Title REGISTERED ARCHITECT License No. 022257-1

Revisions:

1 08/02/23 ISSUE FOR RE-BID

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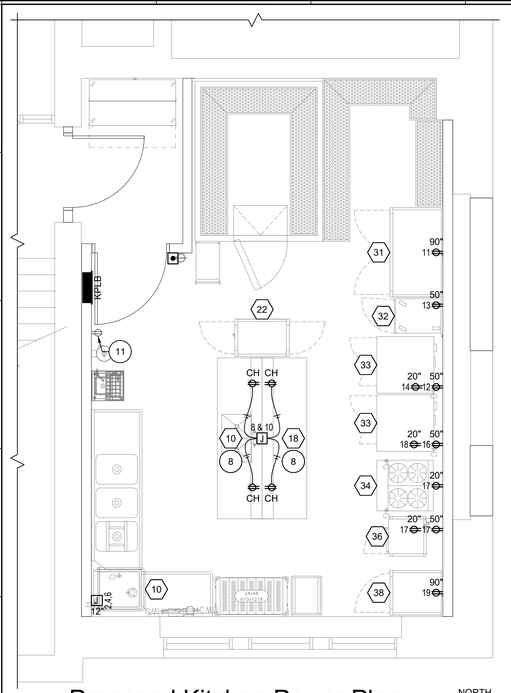
DEMOLITION ELECTRICAL PLANS
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

Job No. 4.1092.85

File No. 1092855101

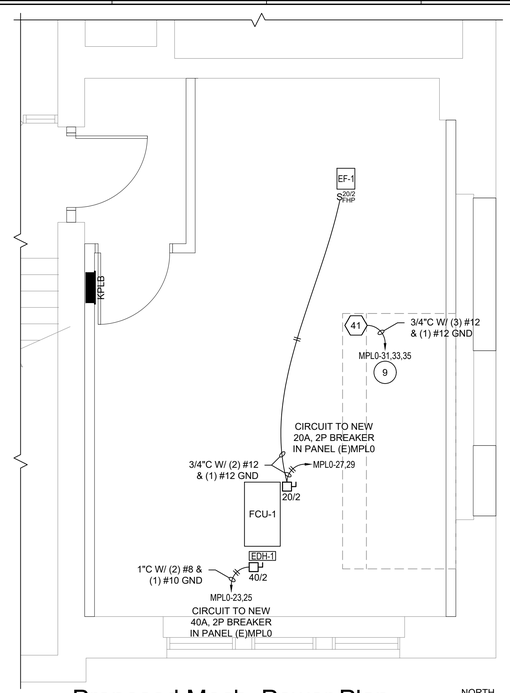
E1.01



1 E2.01 — Proposed Kitchen Power Plan — NORTH

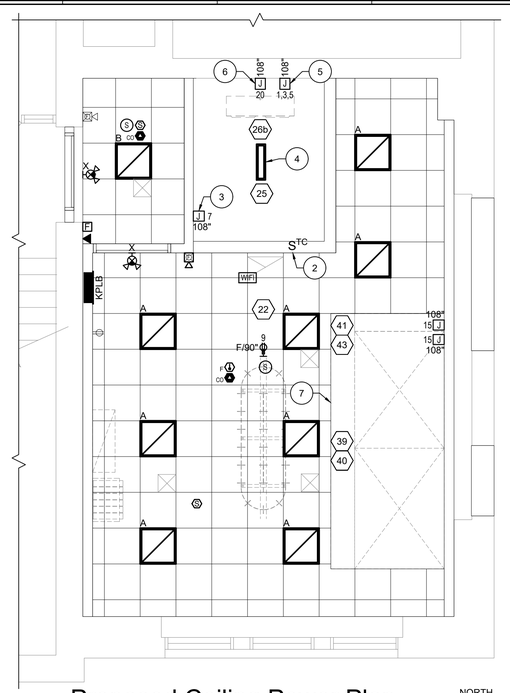
1/4" = 1'-0"

ALL CKT NUMBERS REFER TO PANEL KPL0 UNLESS NOTED OTHERWISE



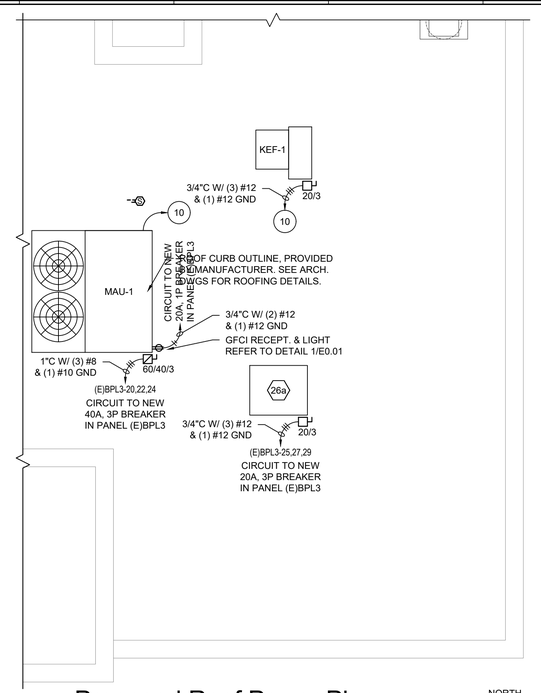
2 E2.01 — Proposed Mech. Power Plan — NORTH

1/4" = 1'-0"



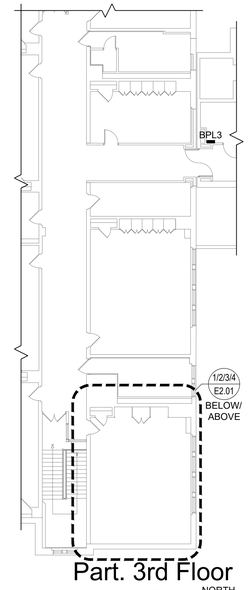
3 E2.01 — Proposed Ceiling Power Plan — NORTH

1/4" = 1'-0"



4 E2.01 — Proposed Roof Power Plan — NORTH

1/4" = 1'-0"



5 E2.01 — Part. 3rd Floor Power Plan — NORTH

1/16" = 1'-0"

Kitchen Electric General Notes

1. ALL 15- AND 20-AMPERE, 120-VOLT RECEPTACLES IN NON-DWELLING-TYPE KITCHENS (KITCHEN AREAS, BAR, ETC.) TO BE GFCI PROTECTED.
2. ELECTRICAL SYSTEM IS DESIGNED FOR 208V, 3ϕ, 4W AND 60HZ.
3. ELECTRICAL CONNECTIONS AND OUTLETS HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE AND ARE INTENDED TO SUIT EQUIPMENT TO BE SUPPLIED. THE ELECTRICAL PLANS ARE SCHEMATIC AND ARE SUBJECT TO FIELD CONDITIONS, COORDINATION REQUIREMENTS AMONG TRADESMEN, CHANGES NECESSARY BY LOCAL BUILDING CODES OR ORDINANCES, OR BY SUBSTITUTIONS, OR CHANGES SHOWN ON THIS PLAN. CONTRACTOR SHALL MAKE ALLOWANCES FOR THE REQUIRED FINAL CONNECTIONS AND SUPPLY ALL NECESSARY FITTINGS, STARTERS, ETC. EXCEPT WHERE SPECIFICALLY NOTED ON THE DRAWINGS OR SPECIFICATIONS. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION
4. FINAL CONNECTIONS TO ALL EQUIPMENT, INCLUDING MATERIALS SHALL BE MADE BY THE ELECTRICAL CONTRACTOR.
5. HEIGHT OF OUTLET IS GIVEN FROM FINISHED FLOOR TO CENTERLINE OF OUTLET.
6. ALL CONVENIENCE OUTLETS TO BE SET HORIZONTALLY. ALL 120 VOLT OUTLETS NOT DESIGNATED WITH SPECIFIC LOADS TO BE RATED 20 AMPS. ALL 208/230 VOLT OUTLETS NOT DESIGNATED TO BE RATED AT 3/4 HP.
7. ALL ELECTRICAL POWER NOT OTHERWISE NOTED TO BE SINGLE PHASE.
8. ELECTRICIAN TO "SIZE" ALL ELECTRICAL JUNCTION BOXES. ELECTRICIAN TO PROVIDE ALL JUNCTION BOXES. ELECTRICAL CONVENIENCE OUTLETS SHALL BE LOCATED IN WALLS. FIXTURE FABRICATOR TO LOCATE ALL CONVENIENCE OUTLETS AND SWITCHES WHERE PART OF FIXTURE, BUT INTERNAL WIRING FOR SUCH BOXES TO BE INSTALLED AND SUPPLIED BY THE ELECTRICAL CONTRACTOR. ALL CONVENIENCE OUTLETS IN WALLS TO BE FLUSH WITH FINISHED WALL UNLESS NOTED OTHERWISE. ELECTRICAL CONTRACTOR TO PROVIDE AND FIELD MOUNT ALL JUNCTION BOXES LOCATED IN ACCESS AREAS OF FIXTURES. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDUIT AND FIXTURES. CONDUIT WHERE STUBBING UP OUT OF FLOOR TO EXTEND MINIMUM OF 2" ABOVE FLOOR OR CURB.
9. DRAWINGS DEPICT THE LOCATION OF OUTLETS, TYPE OF CONNECTION FOR EQUIPMENT AND ELECTRICAL LOAD.
10. ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT AND FIXTURES AND PERFORM INTERNAL WIRING WITHIN KITCHEN EQUIPMENT FIXTURES. ELECTRICIAN SHALL COORDINATE WITH KITCHEN EQUIPMENT FIXTURE FABRICATOR ON PROGRESS OF FABRICATION AND SHALL BE RESPONSIBLE FOR ANY REQUIRED INSPECTION OF INACCESSIBLE AREAS BEFORE SUCH AREAS ARE PERMANENTLY CLOSED OR SEALED.
11. ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION FOR EXHAUST FANS AND MAKE-UP AIR FANS AND LOCATE SWITCHES, AND FOR PILOT LIGHTS WHERE SHOWN ON PLANS. DISCONNECT SWITCHES TO BE MOUNTED CONVENIENT TO HOODS. EXHAUST AND MAKE-UP AIR FANS TO BE SWITCHED ON ONE SWITCH.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL LOCKOUT DEVICES ON ALL BREAKERS FOR CLOCKS, REFRIGERATION, CONTROL WIRING AND FIRE EXHAUST SYSTEM CONTROLS.
13. WHERE SYMBOLS ARE INDICATED FOR A DIRECT CONNECTION, A 4'-0" SECTION OF LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT TYPE LFNC SHALL BE STUBBED OUT AT THE PROPER LOCATION AND SHALL BE CONNECTED TO "J" BOXES LOCATED IN A CONVENIENT POSITION ON EQUIPMENT AFTER EQUIPMENT HAS BEEN PLACED IN POSITION.
14. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
    a. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES, ETC. NOT BUILT INTO FIXTURES OR EQUIPMENT. ALL OUTLETS, JUNCTION-BOXES, COVER PLATES, ETC. IN DISHWASHING AREAS, OR AS INDICATED ON SCHEDULES, MUST BE VAPOR-PROOF.
    b. ALL PLUGS AND CORDS AS NOTED ON SCHEDULE. ALL CORDS SHALL BE NEMA RATED AND UL APPROVED FOR MANUFACTURED AND/OR FABRICATED EQUIPMENT.
    c. ALL COMPONENTS, WITH THE EXCEPTION OF THE GAS SOLENOID VALVE, FOR THE AUTOMATIC GAS FUEL SHUT-OFF, ELECTRICAL RELEASES FOR FOOD SERVICE EQUIPMENT BELOW HOODS/VENTILATORS AS REQUIRED BY NFPA AND LOCAL CODES.
    d. DISCONNECTS OR OTHER DEVICES AS REQUIRED BY CODE.

Light Fixture Schedule

SYMBOL	TYPE	FIXTURE INFORMATION MANUF.	MODEL	DESCRIPTION	VOLT	WATT	MOUNTING	HEIGHT	LED INFORMATION LUMENS	LPW	CLR	KEY NOTES
	A	LITHONIA	2VRTL G L24 5000LM WW AFL MVOLT GZ1 35K 80CRI DWAM	"VRTL" LED RECESSED WET LOCATION TROFFER - 5000 NOMINAL LUMENS	UNIV.	42	CLG. RECESSED	N/A	4627	111	80CRI. 35K	
	B	LITHONIA	EPANL 2X2 4000LM 80CRI 35K MIN10 ZT MVOLT	"EPANEL" LED FLAT PANEL 2x2 - 4000 NOMINAL LUMENS	UNIV.	32	CLG. RECESSED	N/A	4025	126	80CRI. 35K	
	X	LITHONIA	LHQM LED R	UNIVERSAL (TOP/END/BACK) MOUNT COMBO EXIT SIGN & EMERGENCY LIGHT	120	1	WALL SURFACE	REFER TO DETAIL	N/A			1,2

Key Notes
1. CONNECT BATTERY TO LINE SIDE OF AREA LIGHTING SWITCH/POWER PACK.
2. MOUNT AS REQUIRED BY FIELD CONDITIONS.

Symbol Legend

- # ⊖ **DUPLEX RECEPTACLE (WALL)** - WALL MOUNTED 20A, 120V RECEPTACLE TO CIRCUIT INDICATED
- # ⊖ **OVERHEAD CORD RECEPTACLE** - OVERHEAD CORD TYPE RECEPTACLE. REFER TO DETAIL FOR ADDITIONAL INFORMATION. CORDREEL UNLESS INDICATED AS "F" - FIXED LENGTH.
- # [J] **JUNCTION/PULL BOX** - CONNECT TO CIRCUIT NUMBER INDICATED. CONTRACTOR SHALL SIZE AS PER NEC REQUIREMENTS UNLESS SIZE IS INDICATED ON THE PLAN.
- 30/3 **DISCONNECT SWITCH, NON-FUSIBLE** - RATED AS INDICATED ON THE DRAWINGS, (EG. 30/3 INDICATES 30A, 3 POLE). IF NO RATING IS INDICATED, INSTALL A CODE SIZED SWITCH. INSTALL IN A NEMA-1 ENCLOSURE UNLESS NOTED OTHERWISE.
- S 20/1 TH/P **FRACTIONAL HORSE POWER MOTOR STARTER** - NON-FUSIBLE, TOGGLE-TYPE RATED AS INDICATED ON THE DRAWINGS, (EG. 20/1 INDICATES 20A, 1 POLE). IF NO RATING IS INDICATED, INSTALL A CODE SIZED SWITCH. INSTALL IN A NEMA-1 ENCLOSURE UNLESS NOTED OTHERWISE.
- S TC **TIMECLOCK** - REFER TO FS DRAWINGS FOR ADDITIONAL INFORMATION.
- **PUSHBUTTON** - REFER TO FS DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTE - WHEN USED, "#" REFERS TO THE CIRCUIT & PANEL NUMBER

ABBREVIATIONS & DEFINITIONS

ABBR.	DEFINITION
CH	**COUNTER HEIGHT** - RECEPTACLE TO BE MOUNTED AT COUNTER HEIGHT. REFER TO ARCH. DWGS FOR ADDITIONAL INFORMATION.
G	**GROUND FAULT CURRENT INTERRUPTER RATED**
IUC	**IN USE COVER** - RECEPTACLE WITH WEATHERPROOF IN-USE-COVER.
WP	**WEATHERPROOF** - NEMA 3R ENCLOSURE

KPLB — **208Y/120V FLUSH MOUNTED PANELBOARD** - REFER TO PANEL SCHEDULE AND/OR ONE-LINE FOR ADDITIONAL INFORMATION. WHEN SHOWN, DASHED LINES W/ HATCH INDICATE CLEARANCE.

- # **HOMERUN** - HOMERUN TO CIRCUIT(S) INDICATED. IF NOT INDICATED ON THE PLAN, REFER TO THE PANEL SCHEDULE FOR CONDUCTOR/RACEWAY INFORMATION.
- **CONDUCTOR INDICATOR** - FULL HASHES INDICATE UNDGROUNDED "HOT" CIRCUIT CONDUCTORS. HALF HASHES INDICATE GROUNDED NEUTRAL CONDUCTORS. ALL CIRCUITS CONTAIN A GROUND CONDUCTOR.
  - I - (1) HOT, (1) NEUTRAL (eg., 120, 1ϕ)
  - II - (2) HOT, (0) NEUTRAL (eg., 208, 1ϕ)
  - III - (3) HOT, (0) NEUTRAL (eg., 208, 3ϕ)
- S **RELOCATED SMOKE DETECTOR** - EXTEND CONDUCTORS AND BACKBOX AS REQUIRED.
- H **HEAT DETECTOR** - FIXED TEMPERATURE (135° UNLESS NOTED OTHERWISE ON THE PLAN). DEVICE TO REPLACE RELOCATED SMOKE DETECTOR. EXTEND CONDUCTORS AND BACKBOX AS REQUIRED.
- F **RELOCATED MANUAL PULL STATION** - EXTEND CONDUCTORS AND BACKBOX AS REQUIRED.
- CO **CARBON MONOXIDE DETECTOR** - WITH SOUNDER BASE. DEVICE SHALL BE UL LISTED FOR DIRECT CONNECTION TO THE EXISTING FACP. CONNECT TO CLOSEST AVAILABLE SLC LOOP. DETECTION OF CARBON MONOXIDE SHALL BE A SUPERVISORY SIGNAL ONLY AND SHALL NOT PUT THE WHOLE BUILDING IN ALARM.
- DS **DUCT SMOKE DETECTOR** - WITH INTEGRAL RELAY FOR HVAC SHUTDOWN REQUIREMENTS. DETECTOR SHALL BE UL LISTED FOR USE WITH THE EXISTING FACP. DETECTOR SHALL BE LISTED FOR USE IN AN OUTDOOR ENVIORNMENT.
- S **RELOCATED SPEAKER** - EXTEND CDTRS AND BACKBOX AS REQ.
- WIFI **RELOCATED WIFI ACCESS POINT** - EXTEND CONDUCTORS AND BACKBOX AS REQUIRED.

Kitchen Equipment Power Reqirements

SYMBOL INDICATES EQUIPMENT No.

ITEM No.	EQUIPMENT TYPE	QTY	HP	kW	AMP	V	Φ	CORD/ PLUG	NEMA TYPE	DIRECT WIRE	REMARKS
1	MILK COOLER	1			2.2	120	1	✓	5-15P		
10	WAREWASHER, DOOR TYPE, VENTLESS	1	1.0		49.3	208	3			✓	
16	PREP. TABLE, 2-COMPARTMENT	1			12.0	120	1	✓	5-15P		
18	WORK TABLE	1			12.0	120	1	✓	5-15P		
22	REFRIGERATOR, PASS-THRU	1	0.3		7.3	120	1	✓	5-15P		
25	WALK-IN FREEZER	1			15.0	120	1			✓	
26	REFRIGERATION TO ITEM #25	1			9.2	208	3			✓	COMPRESSOR UNIT
					10.1	208	1			✓	EVAPORATOR COIL
31	REFRIGERATOR, REACH-IN	1	0.5		12.9	120	1	✓	5-20P		
32	HOLDING CABINET, HEATED	1		2.2	16.7	120	1	✓	5-20P		
33	OVEN, CONVECTION, GAS	2			9.8	120	1	✓	5-15P		
					9.8	120	1	✓	5-15P		
34	RANGE, HEAVY DUTY, GAS	1			0.1	120	1	✓	5-15P		
36	STEAMER, ATMOSPHERIC	1			1.0	120	1	✓	5-15P		
					1.0	120	1	✓	5-15P		
38	REFRIGERATOR, REACH-IN	1	0.25		7.3	120	1	✓	5-15P		
39	EXHAUST HOOD, TYPE 1	1	REFER TO MECHANICAL SCHEDULES								
40	SUPPLY PLENUM , MAKE-UP AIR	1									
41	EXHAUST HOOD, CONTROL PANEL	1			15.0	120	1			✓	
43	FIRE PROTECTION SYSTEM	1			15.0	120	1			✓	

COORDINATION NOTES:
1. ELECTRICAL CONTRACTOR SHALL REVIEW THE FOOD SERVICE DRAWINGS ("FS.X") AND IS RESPONSIBLE FOR ALL WORK ITEMS CALLED OUT AS BEING BY THE ELECTRICAL CONTRACTOR. ALARM CONTRACTOR OR "EC" EVEN IF NOT INDICATED ON THE ELECTRICAL DRAWINGS.
2. COORDINATE ALL MOUNTING HEIGHTS WITH FS DRAWINGS. IF A DISCREPANCY ARISES, FS DRAWING SHALL TAKE PRECEDENCE.

Elec. Key Notes

SYMBOL INDICATES PROP. KEY NOTE

1. EXISTING SWITCHBOARD. FURNISH AND INSTALL A NEW 150AF/150AT, 3P BREAKER IN THE EXISTING SWITCHBOARD COMPLETE WITH CONNECTION STRAP KIT, I.E., STRAPS, ESCUTCHEONS, FILLER PLATES, COVER PLATES AND NECESSARY HARDWARE FOR A COMPLETE ASSEMBLY. COORDINATE POWER INTERRUPTION WITH OWNER'S AUTHORIZED REPRESENTATIVE.
2. EXTEND (5) WIRES & GROUND THRU TIME CLOCK TO FREEZER UNIT EVAPORATOR COIL (FANS, DEFROST & CONSTANT "HOT" FOR DRAIN LINE HEATER). COORDINATE IN FIELD WITH KITCHEN EQUIPMENT CONTRACTOR ("K.E.C.").
3. LIGHTS, DOOR HEATER & TEMP. ALARM. WIRE THROUGH SWITCH AS PER FS DRAWINGS.
4. ADDITIONAL WALK-IN LIGHTS PROVIDED & INSTALLED BY K.E.C. AND WIRED BY E.C.
5. WIRE FROM TIME CLOCK TO EVAPORATOR COIL.
6. J.B. FOR HEAT TAPE. K.E.C. TO INSTALL HEAT TAPE.
7. LOW VOLTAGE INTER-WIRING FOR CONTROLS/TEMP. SENSORS FROM EXHAUST HOOD PANEL TO EXHAUST HOOD BY ELECTRICAL CONTRACTOR. REFER TO FS DRAWINGS.
8. J.B. AND RECEPTACLE(S) INSTALLED BY K.E.C. AND WIRED BY E.C.
9. INCOMING CIRCUIT FOR KEF-1 REFER TO FS DRAWINGS FOR ADDITIONAL INFORMATION.
10. CONTROL AND/OR POWER CONDUCTORS TO KITCHEN EXHAUST HOOD CONTROL PANEL. CONDUITS TO FOLLOW DUCTWORK ON EXTERIOR OF BUILDING. PROVIDE AND INSTALL UNISTRUT SUPPORT AS REQUIRED. REFER TO FS DRAWINGS FOR WIRING REQUIREMENTS.
11. REPLACE EXISTING RECEPTACLE WITH A NEW GFCI RECEPTACLE.

PANEL SCHEDULE - PANEL KPL0

FED FROM (E)MDP | 208Y/120V

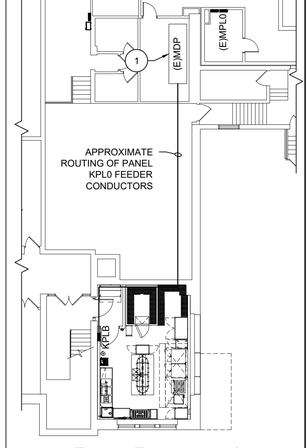
CT#	Load Description	OCPD Type	OCPD Poles	OCPD Rated	Conductors Current	Conductors Neutral	Conductors Ground	Raceway	Voltage	Load kVA	Load per Phase(A) Phase A	Phase B	Phase C	Voltage Drop %
1	[38] REACH-IN REFRIG.	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	0.83	7.3			1.8%
2/4/6	[10] WAREWASHER	Std	3	60A	(3) 6 ga.	none	(1) 10 ga.	3/4 in. EMT	208	16.87	49.3	49.3	49.3	1.8%
3	[16] PREP TABLE	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	0.36		3.16		1.5%
5	[18] WORK TABLE	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	0.36			3.16	1.5%
7	[22] PASS-THRU REFRIG.	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	0.83	7.3			1.8%
8	[25] WALK-IN FREEZER	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	1.71	15			3.9%
9/11/13	[26] FREEZER EVAPORATOR	Std	3	20A	(3) 12 ga.	none	(1) 12 ga.	3/4 in. EMT	208	3.46	10.1	10.1	10.1	2.1%
10	[31] REACH-IN REFRIGERATOR	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	1.47		12.9		3.5%
12	[32] HOLDING CABINET	Std	1	20A	(1) 10 ga.	(1) 10 ga.	(1) 12 ga.	3/4 in. EMT	120	2			16.7	3.7%
14	[33] CONVECTION OVEN 1 BOTTOM	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	1.12	9.8			2.9%
15	[33] CONVECTION OVEN 1 TOP	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	1.12		9.8		2.9%
16	[33] CONVECTION OVEN 2 BOTTOM	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	1.12		9.8		2.9%
17	[33] CONVECTION OVEN 2 TOP	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	1.12			9.8	2.9%
18	[34] [36] RANGE & STEAMERS	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	0.24			2.1	1.5%
19	[41] [43] EX. HOOD/FIRE PROT. PANELS	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	1.71	15			4.5%
20	BLANK													4.8%
21	HEAT TAPE	Std	1	20A	(1) 12 ga.	(1) 12 ga.	(1) 12 ga.	3/4 in. EMT	120	1.8		15		4.8%
22-42	BLANK													
		Total Circuits	19					Connected Loads: 34.570 VA			113.1 A	110 A	91 A	

Voltage: 120 / 208
Circuits: 19 / 42
Neutral Buss: No
Ground Buss: Yes
Buss Capacity: 200 A
NEMA Type 1

Main Connection: breaker
Load kVA: 35
OCPD Size: 150A
OCPD Type: Std
Location:
Remarks:

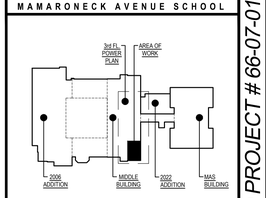
3-Phase Connection

Voltage Drop % for 100 Feet is 1.02%	Current	Neutral	Ground
Raceway: 2 in. dia. EMT	(3) 1/0 ga. THHN	(1) 1/0 ga. THHN	(1) 6 ga. THHN



6 E2.01 — Part. Proposed Feeder Plan — NORTH

1/16" = 1'-0"



Key Plan — PROJECT NORTH

NOT TO SCALE

Date	12/20/22
Checked	BH
Drawn	MH

MICHAEL J. McGOVERN, R.A.
Title REGISTERED ARCHITECT License No. 022257-1

Revisions:

08/02/23 ISSUE FOR RE-BID

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PROPOSED KITCHEN ELECTRICAL PLANS
NEW KITCHEN DESIGN
MAMARONECK AVENUE SCHOOL
850 MAMARONECK AVENUE
MAMARONECK, NEW YORK 10543

NYSED PROJECT # 66-07-01-03-0-004-033

Job No. 4.1092.85

File No. 1092855201

E2.01