

Date	12/20/22
Checked	MAM
Drawn	JPD

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

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

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 2209 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.

Engineering,
Planning,
Architecture,
Surveying LLP

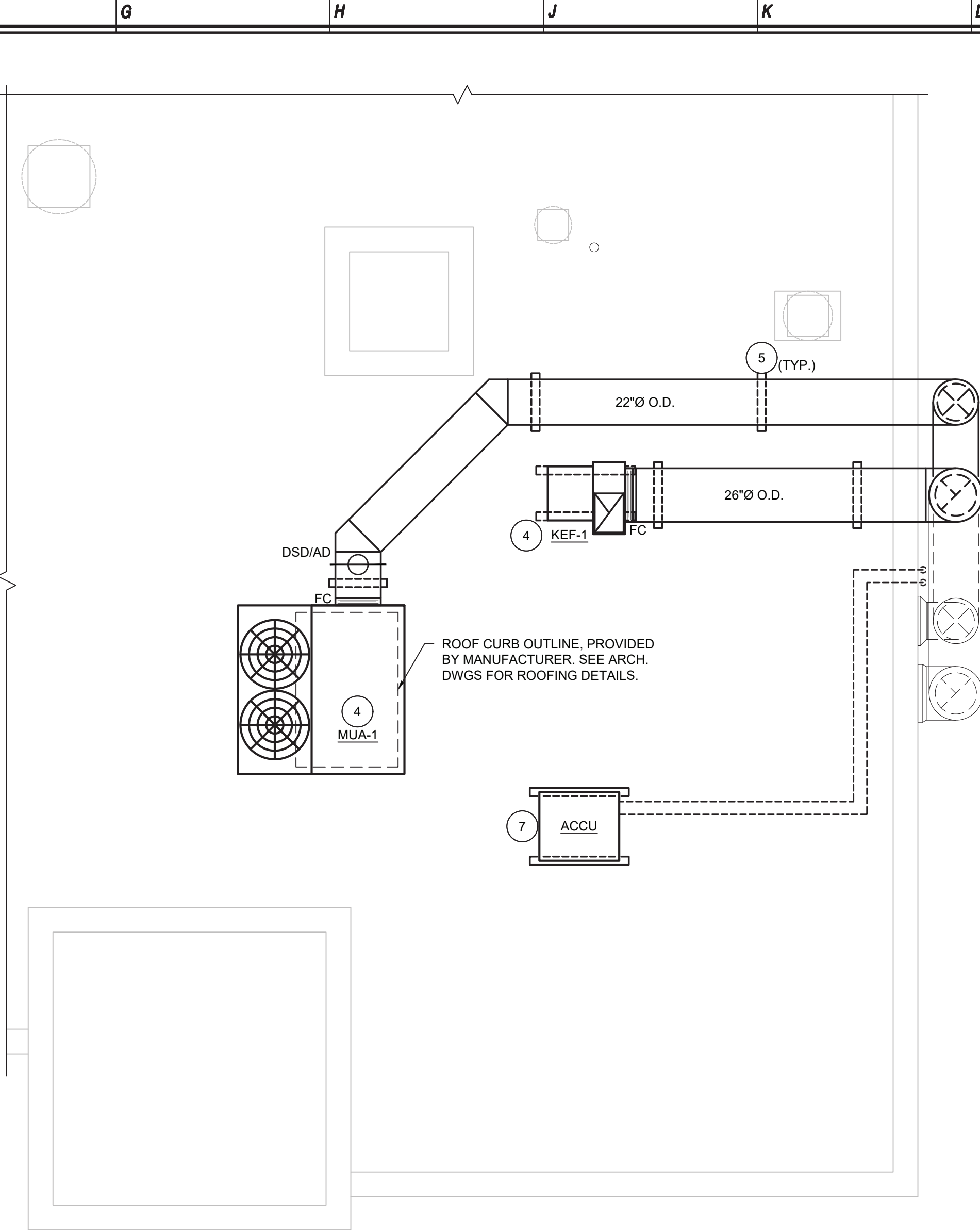
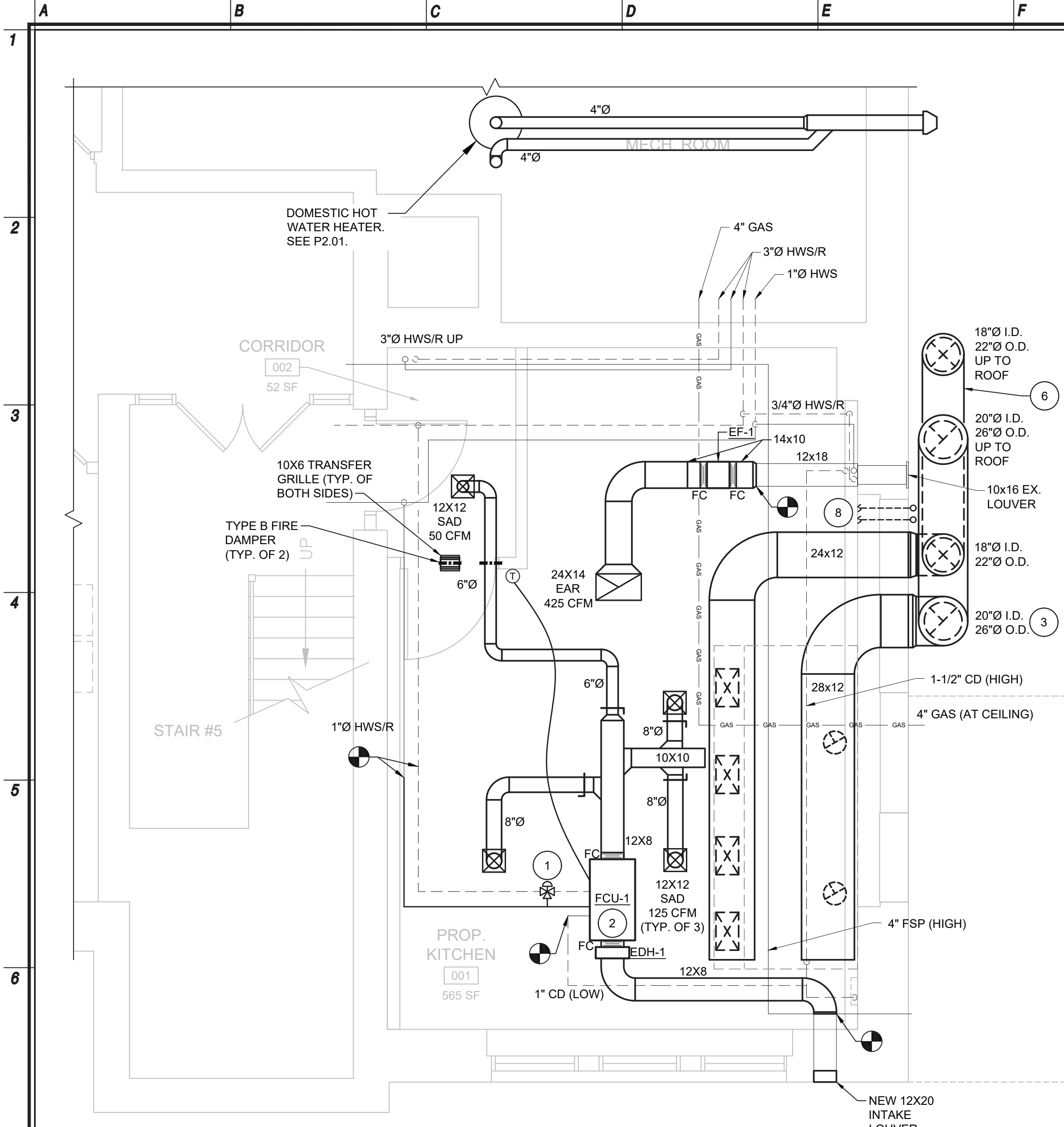
LAN ASSOCIATES
252 Main Street, Goshen, New York 10924 | t. 845-615-0350 | f. 845-615-0351

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

Job No. 4.1092.85
File No. 109285M101

M1.01

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



Construction Key Notes

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.

Proposed Kitchen Mechanical Floor Plan

Proposed Mechanical Roof Plan

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)	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

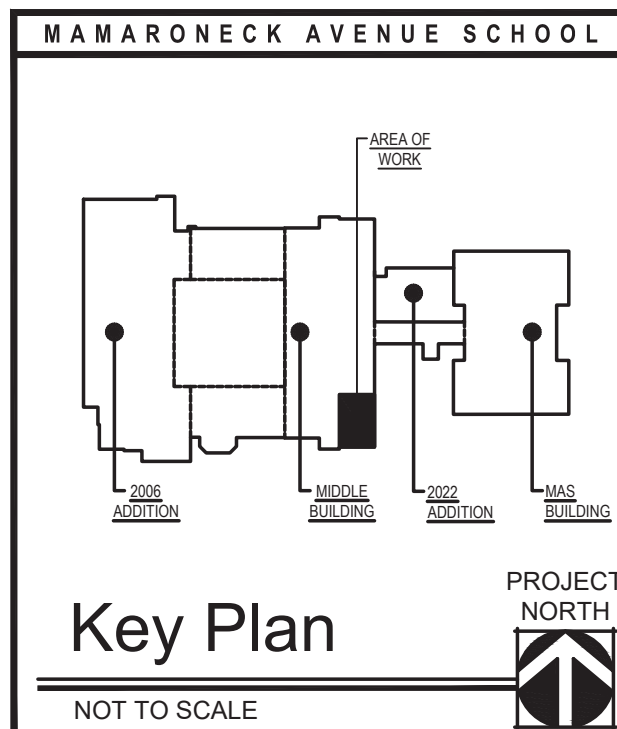
(DAIKIN AS STANDARD)																																			
TAG	AREA SERVED	CFM	MIN O.A. (CFM)	ESP (In. H ₂ O)	ELECTRIC PRE-HEAT DUCT HEATER					CHILLED WATER COOLING								HOT WATER HEATING						ELECTRICAL DATA			DIMENSIONS (L x W x H) (In.)	APPROX. WEIGHT (Lbs)	MODEL	MANUFACTURER	NOTES				
					TAG	CAPACITY (KW)	V - Ph - Hz	MCA/MOP	CONTROLS	MANUF. & MODEL	TMBH	SMBH	EADB (°F)	EAWB (°F)	LADB (°F)	LAWB (°F)	EWI (°F)	LWT (°F)	GPM	WPD (F)	MBH	EAT (°F)	LAT (°F)	EWI (°F)	LWT (°F)	GPM						WPD (F)	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

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
Checked MAM
Drawn JPD

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

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

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 2205 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.

Engineering,
Planning,
Architecture,
Surveying LLP

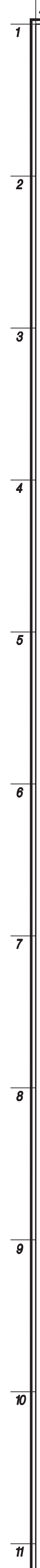
LAN ASSOCIATES
252 Main Street, Goshen, New York 10924 | L 845-615-0350 | F 845-615-0351

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



- 5

1	Re
M6.01	N.T.S.



- 7

5
M6.01



6
M6.01 N.T.S.



3
M6.01



7
M6.01



4
M6.01

Revisions:
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.

Engineering,
Planning,
Architecture,
Surveying LLP

LAN ASSOCIATES
252 Main Street, Goshen, New York

MECHANICAL DETAILS

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


Job No. 4.1092.85

File No. 109285M601

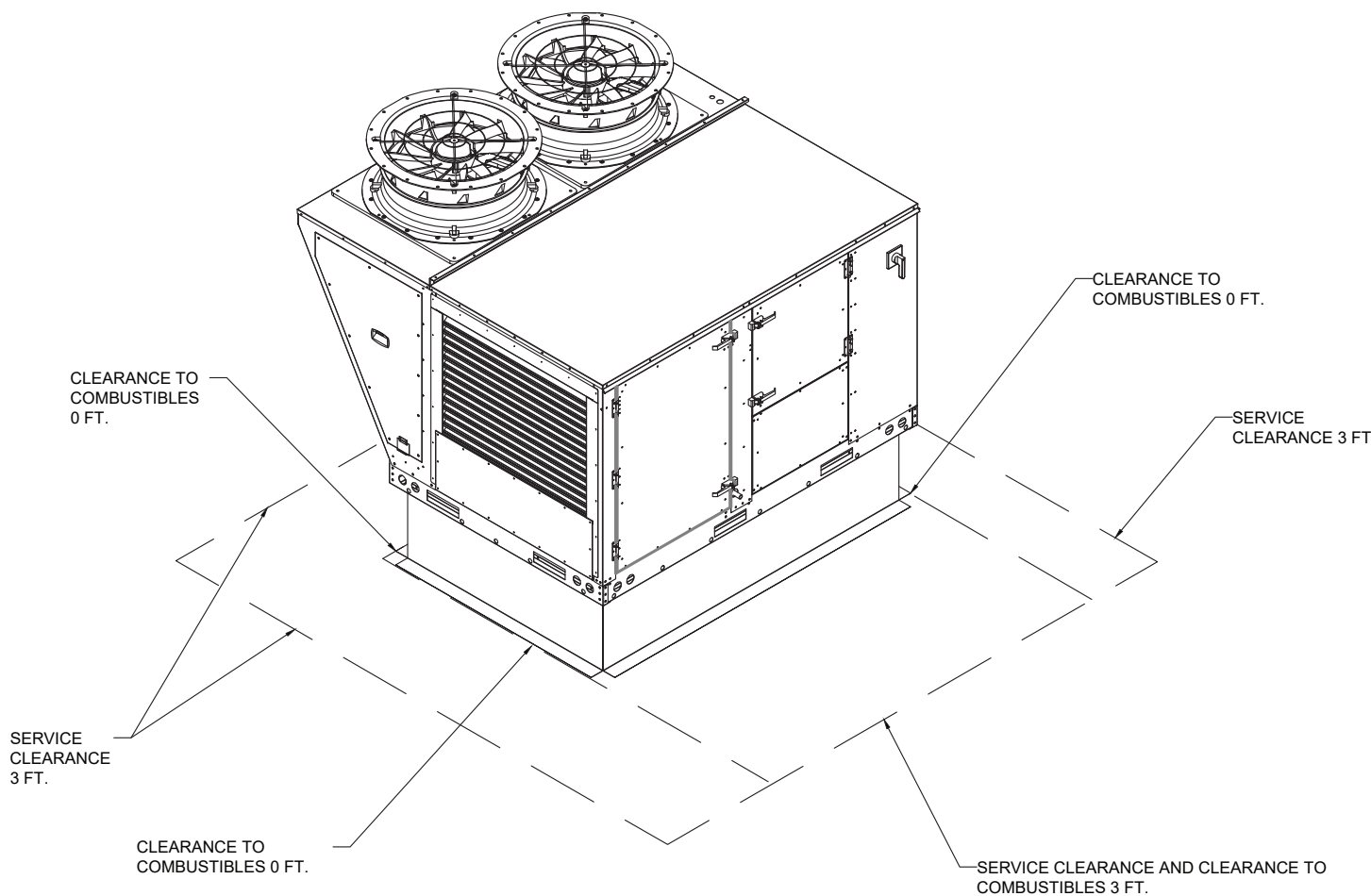
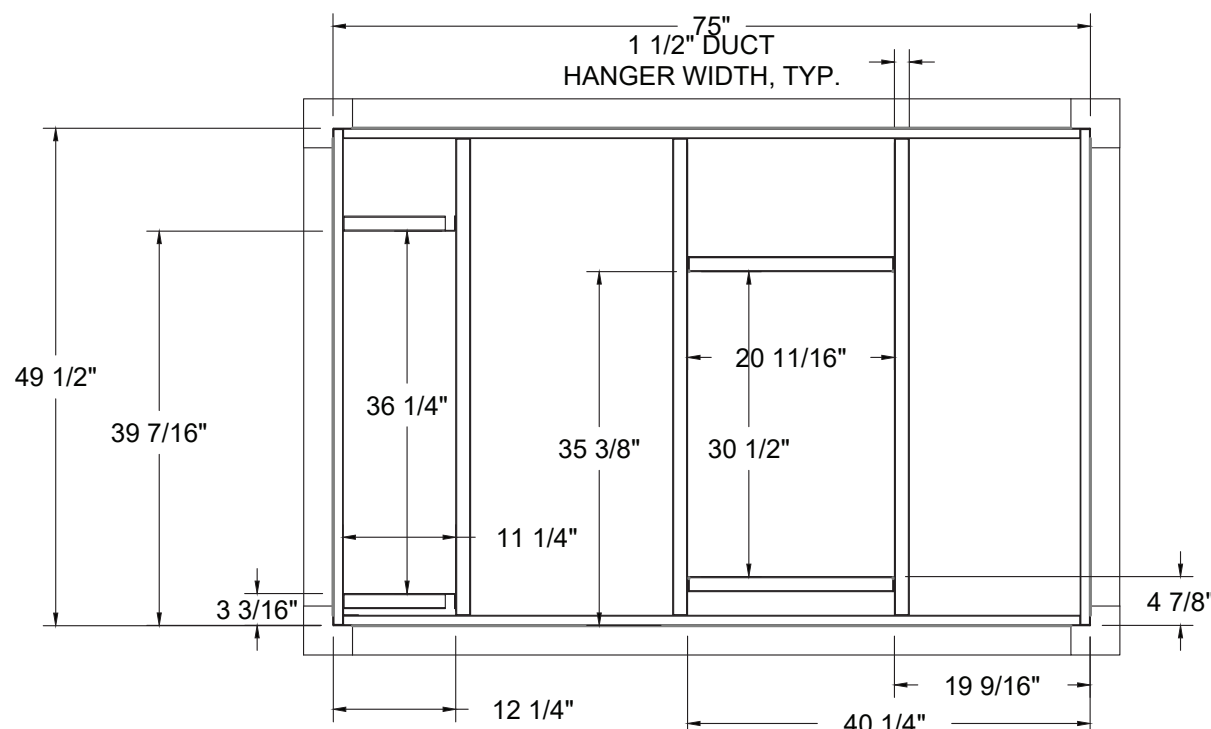
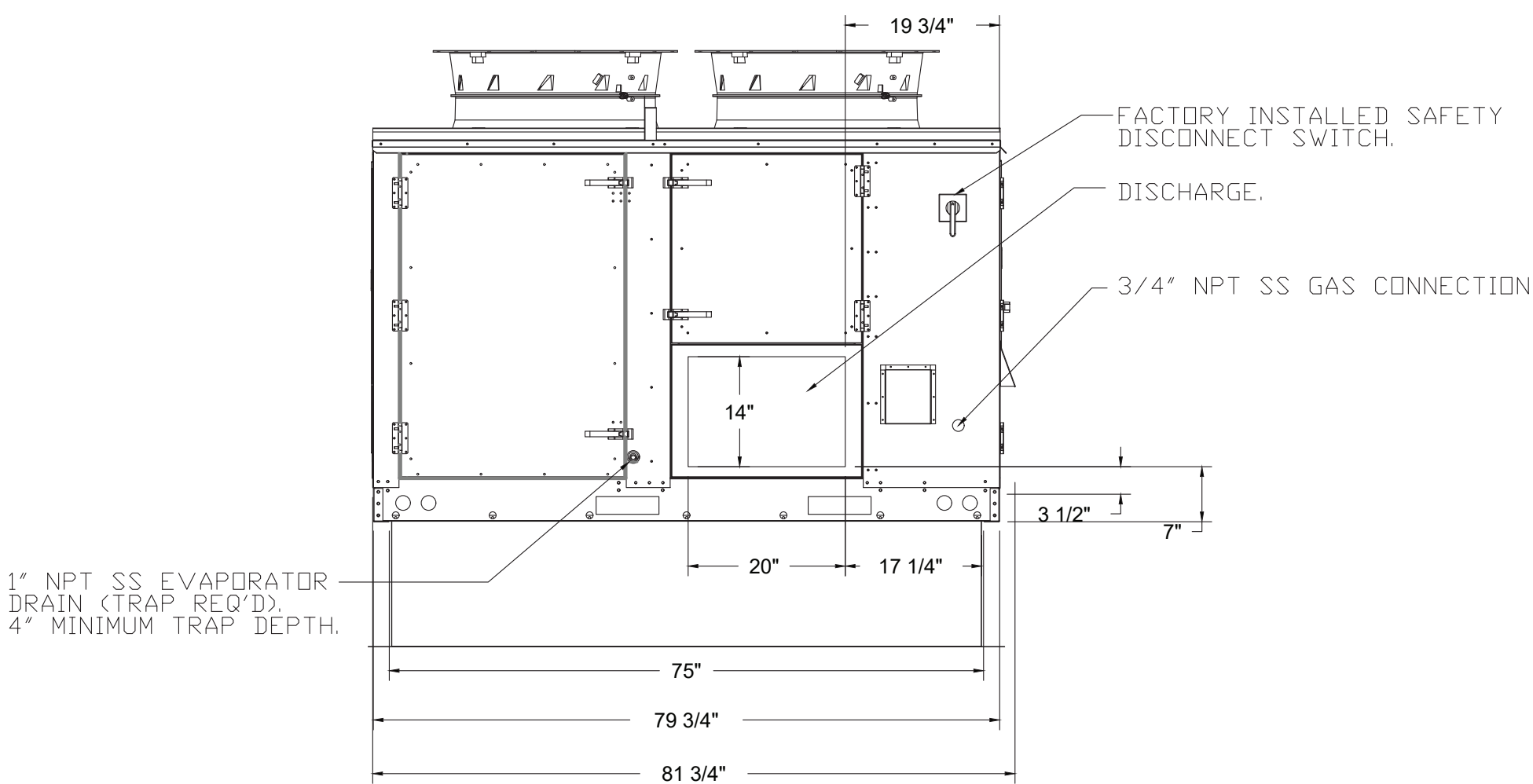
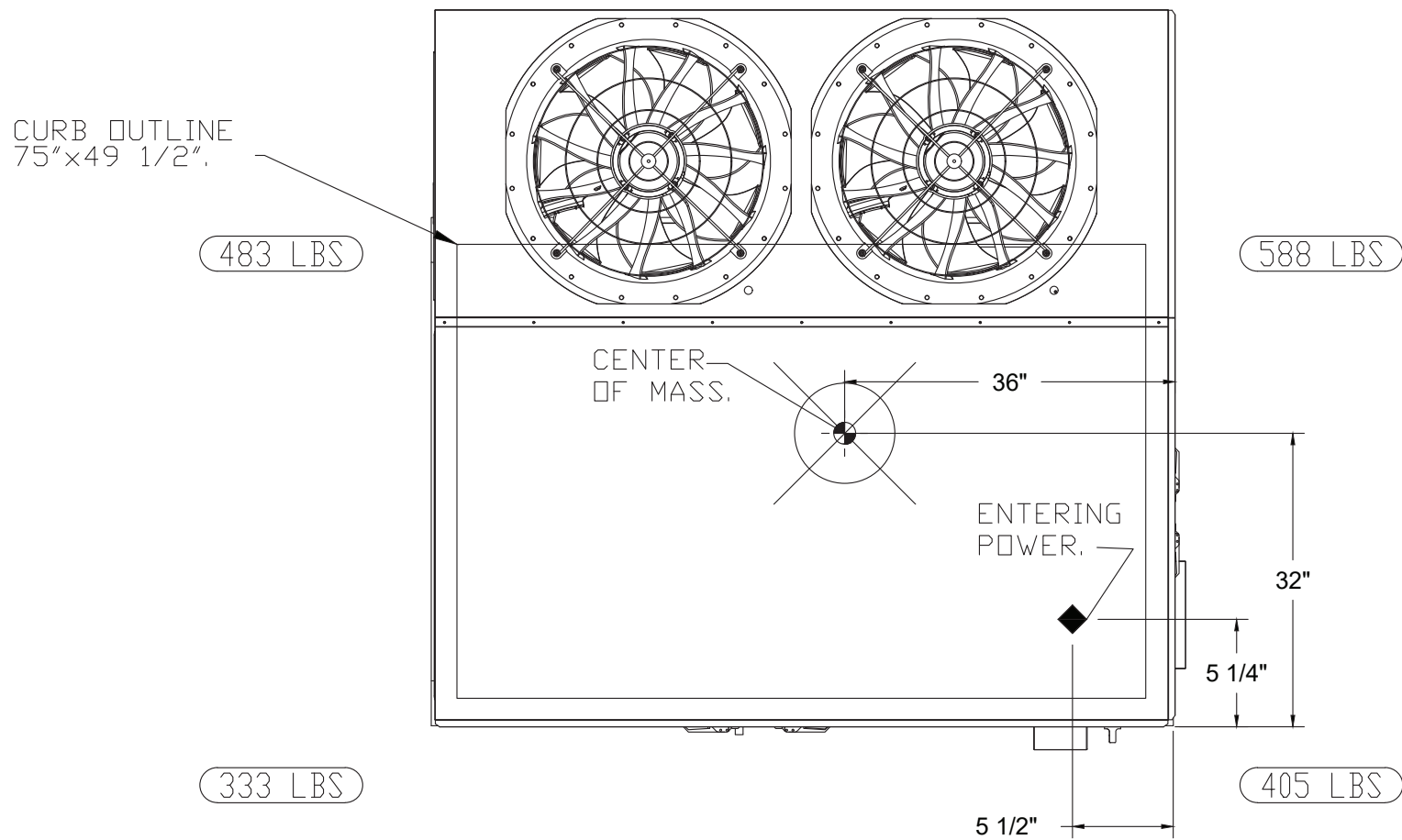
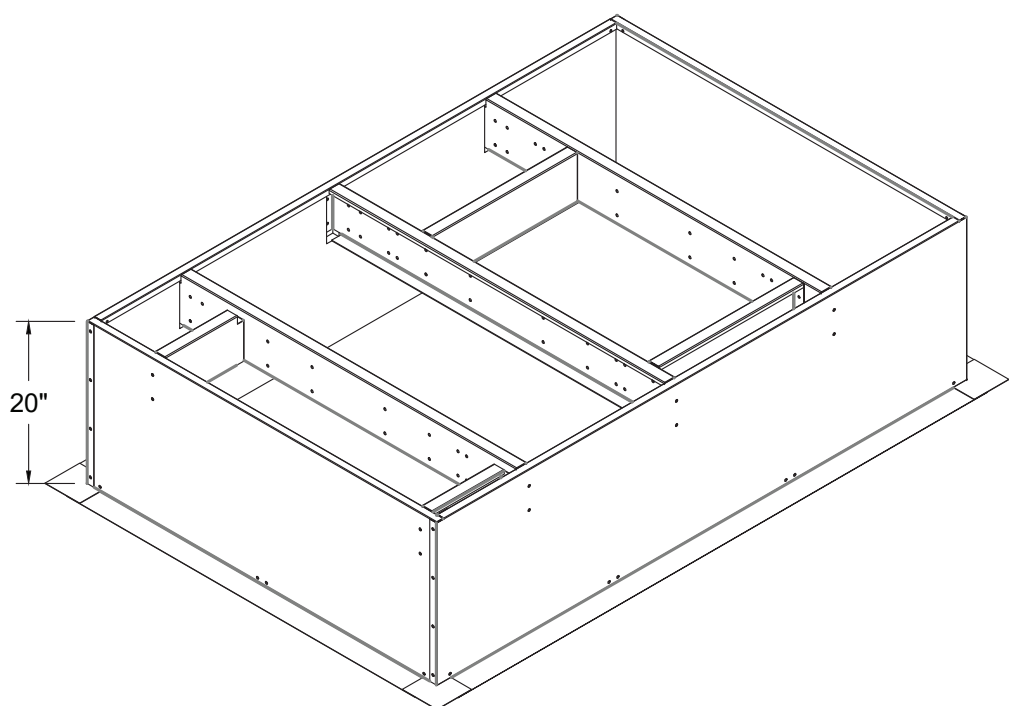
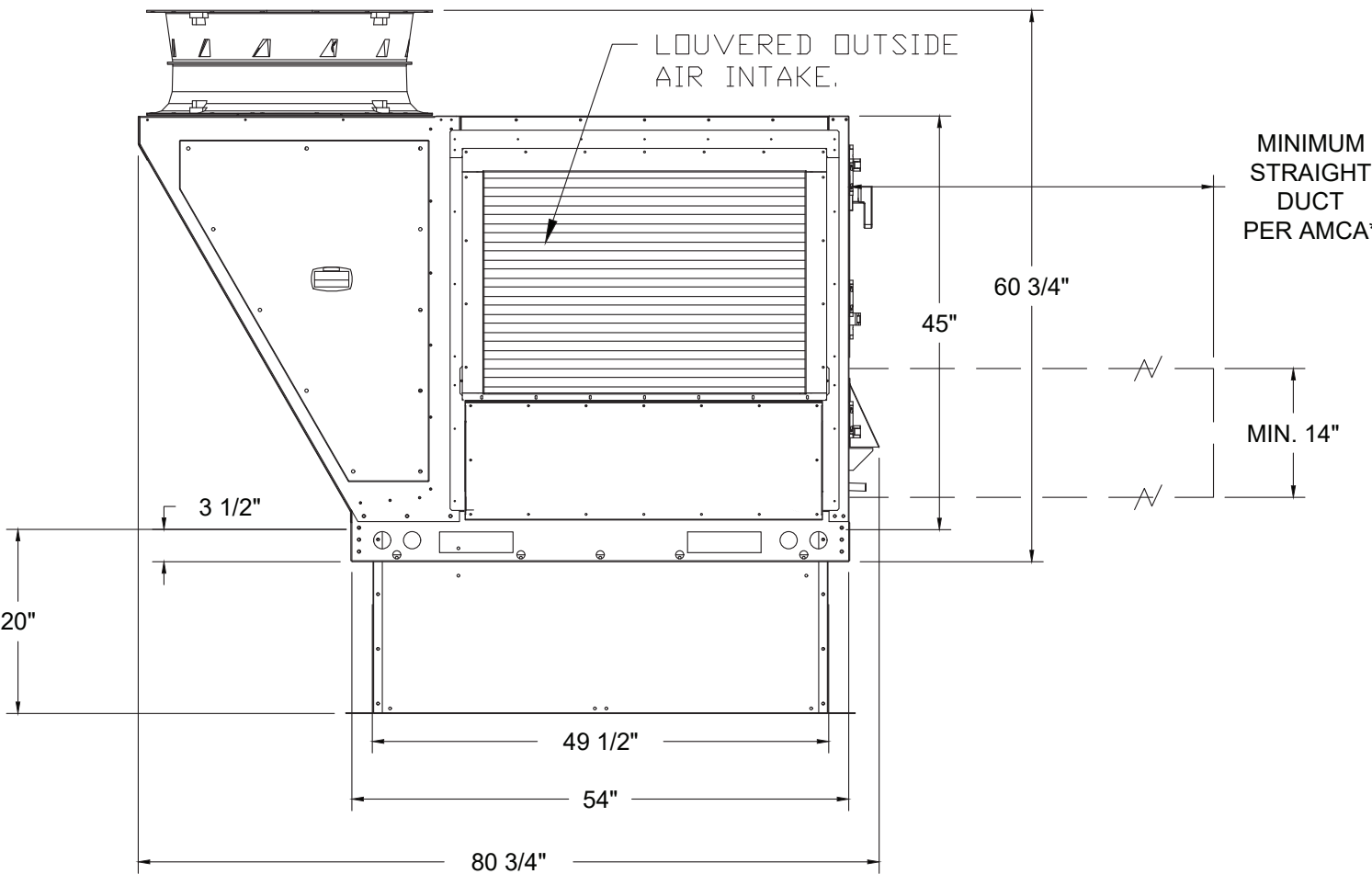
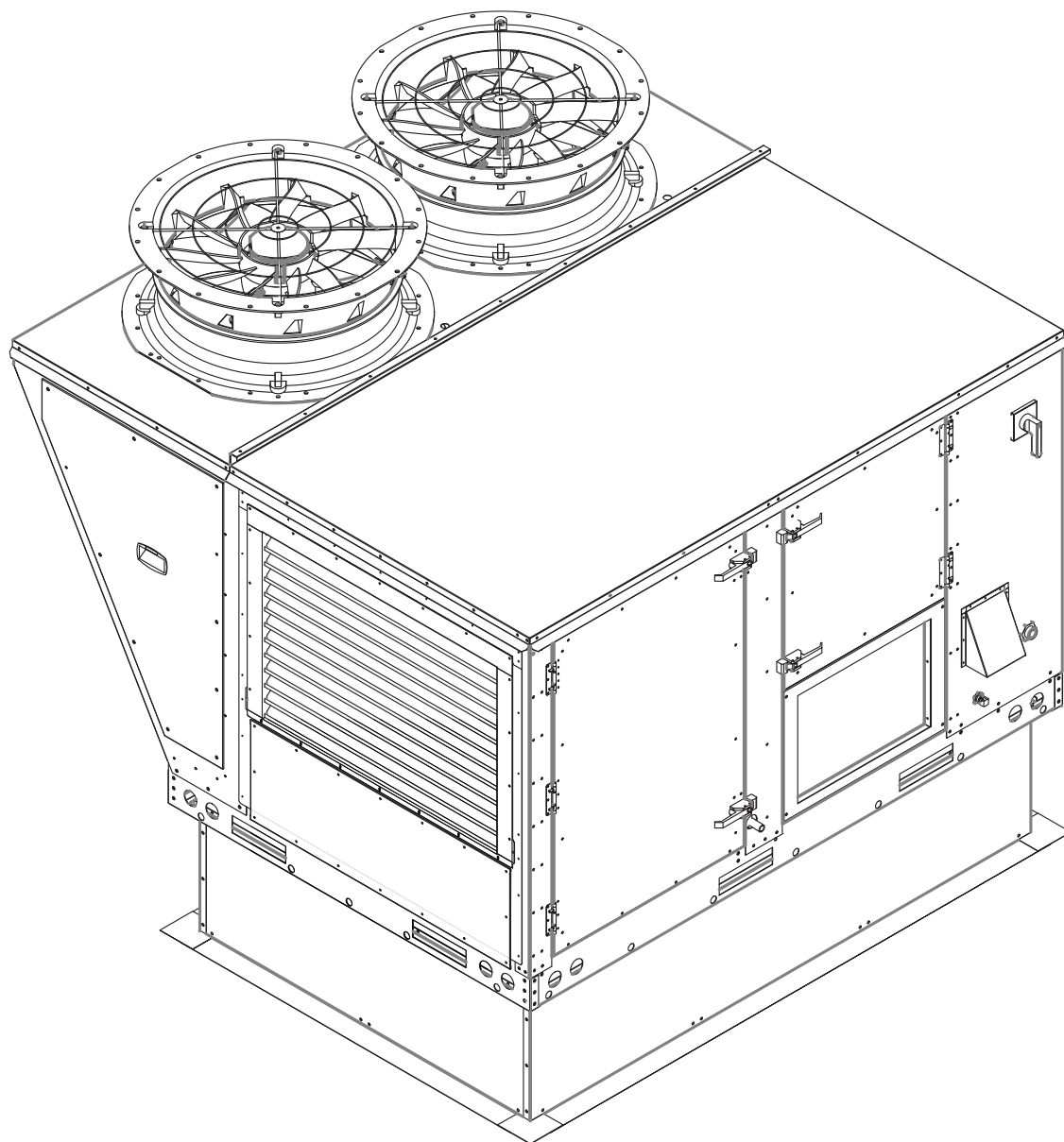
M6.01

	NYS	ED PROJECT # 66-07-01-03-0-004-033
--	-----	------------------------------------

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

- NOTES:
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
 -  DENOTES CORNER WEIGHT.
 - 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".



Date12/20/22

CheckedMAM

DrawnJPD

MICHAEL J. MCGOVERN, R.A.

The REGISTERED ARCHITECT

License No. 022257-1

Revisions:

#

08/02/23

ISSUE FOR RE-BID

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 2209 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.

Engineering, Planning, Architecture, Surveying LLP

LAN ASSOCIATES

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

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. 109285M603

M6.03