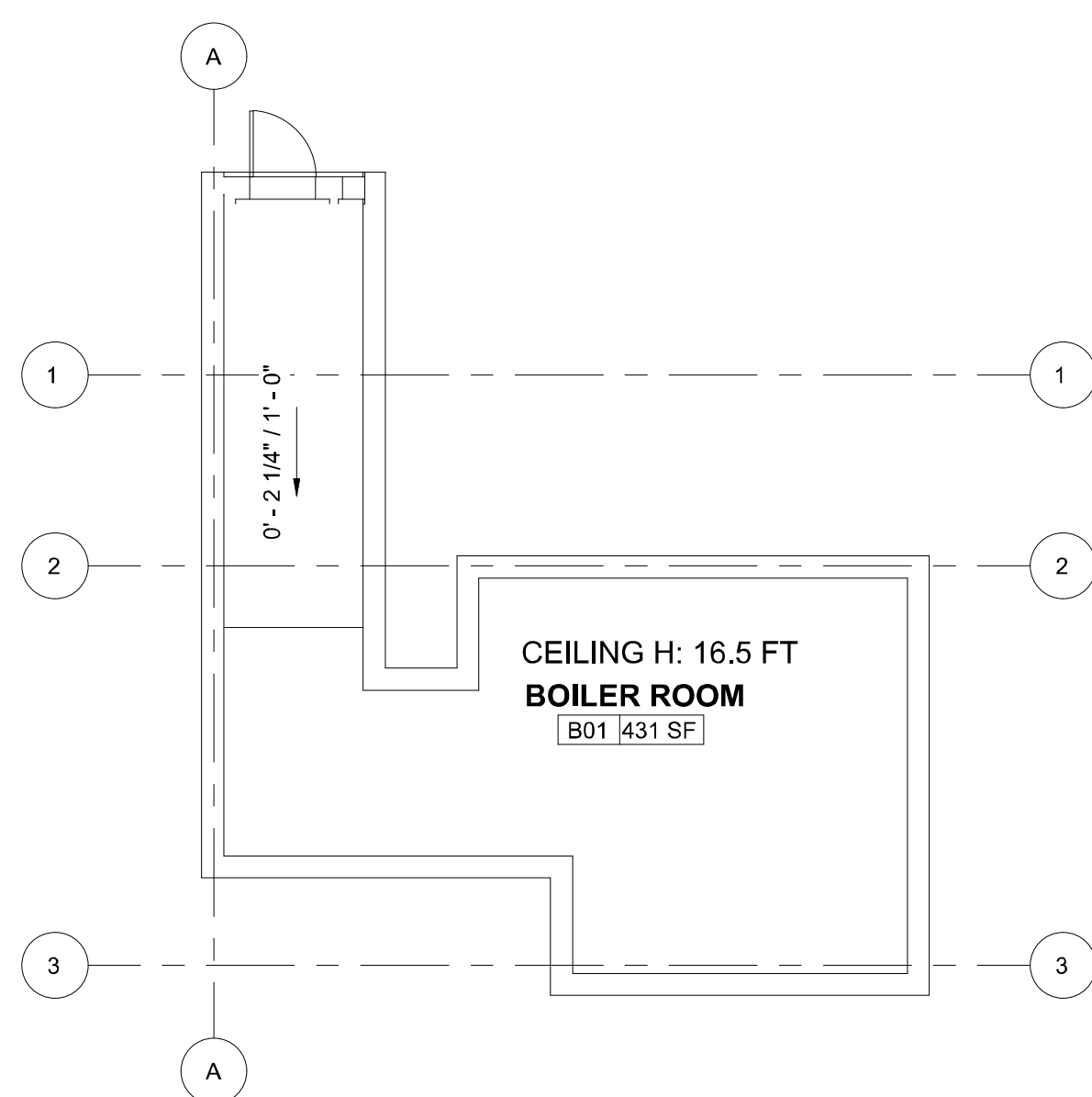


1 FIRST FLOOR PLAN
 M100 SCALE: 1/8" = 1'-0"



2 BOILER ROOM PLAN
 M100 SCALE: 1/8" = 1'-0"

INDOOR UNIT							
No	CFM	MANUFACTURE	MODEL	VOLTAGE	COOLING CAPACITY	HEATING CAPACITY	COMMENTS
AC-1	400	YORK	YICS015B21S	208/1/60	15,000	17,000	
AC-2	800	YORK	YICS024B21S	208/1/60	24,000	27,000	
AC-3	800	YORK	YIDS018B21S	208/1/60	18,000	20,000	
AC-4	1,200	YORK	YIDM048B22S	208/1/60	48,000	54,000	

CONDENSER UNIT SCHEDULE									
No	CFM	MANUFACTURE	MODEL	ELECTRICAL			COOLING CAPACITY	HEATING CAPACITY	COMMENTS
				MOP	MCA	VOLTAGE			
CU-1	18,074	YORK	YVAHP288B32S	70+70	58+58	208-230V/60/3	288,000	324,000	NUMBER OF INDOOR UNITS CONNECTION 20/59
CU-2	15,744	YORK	YVAHR216B32S	70+40	58+29	208-230V/60/3	216,000	243,000	NUMBER OF INDOOR UNITS CONNECTION 18/46
CU-3	18,074	YORK	YVAHR240B32S	60+60	46+46	208-230V/60/3	240,000	270,000	NUMBER OF INDOOR UNITS CONNECTION 18/52

FAN SCHEDULE							
FAN	CFM	S.P. "WC	FAN RPM	HP	V-PH-HZ	MFG/MODEL	REMARKS
EF-1	400	.625	1540	1/6	120-1-60	COOK/100 ACRUB	TIME CLOCK, SPEED CONTROL, ROOF CAP WITH BIRD SCREEN
EF-2	400	.625	1540	1/6	120-1-60	COOK/100 ACRUB	TIME CLOCK, SPEED CONTROL, ROOF CAP WITH BIRD SCREEN
EF-3	850	1	1549	1/3	120-1-60	COOK/120 ACRUB	TIME CLOCK, SPEED CONTROL, ROOF CAP WITH BIRD SCREEN

DRAFT

**PLATO
 MARINAKOS, JR.
 ARCHITECT, LLC**

www.plato-studio.com

107 S 2nd Street
 4th Floor
 Philadelphia, PA 19106
 267-866-0930 OFFICE
 267-866-0931 DIRECT
 plato@plato-studio.com

ARCHITECT SEAL MUST BE IN RED INK

OWNER

ISSUED BY:
PLATO A. MARINAKOS JR ARCHITECT, LLC
 FOR "APPROVAL" BY OUR CLIENT AND CUSTOMER

CLIENT IS REQUIRED TO
CHECK (X) ONE BOX APPROVED AS IS
 APPROVED AS NOTED
 ONLY

CLIENT SIGNATURE

DATE

NAME (PLEASE PRINT)

KINDLY RETURN ALL DRAWINGS FOR THE COMPLETE
 BUILDING, SIGNED AND DATED TO OUR OFFICE
 LOCATION

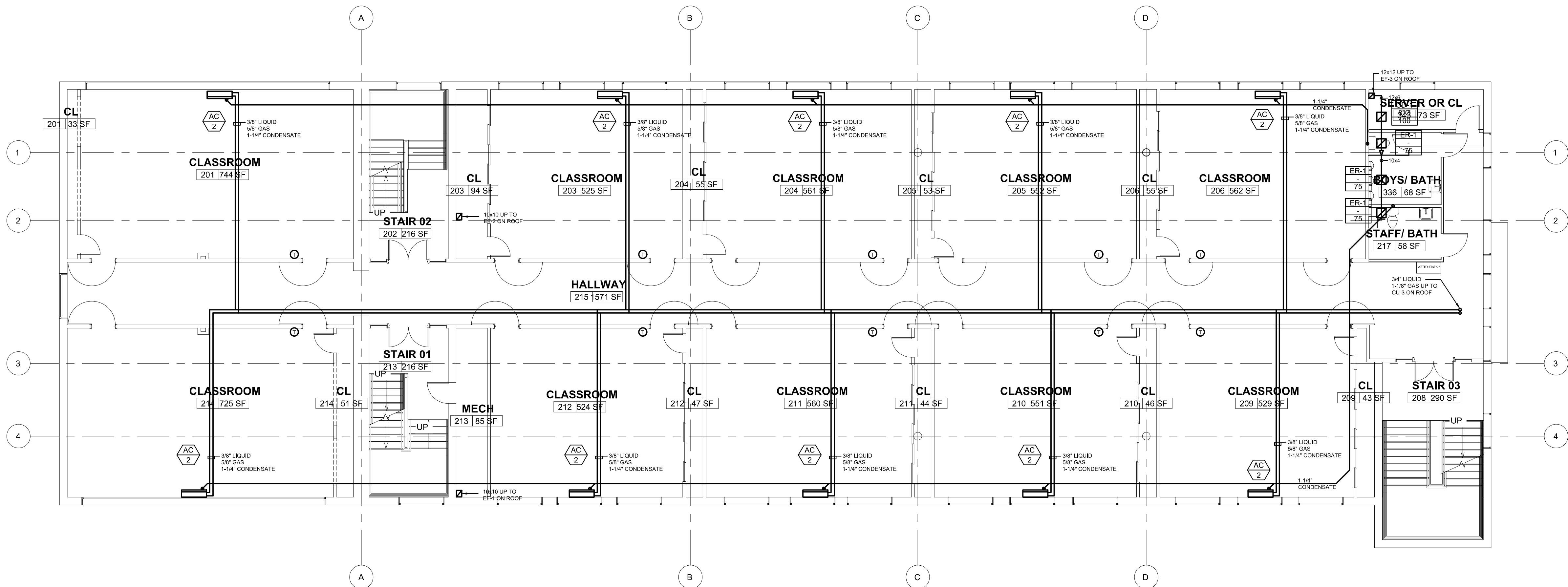
**716 EMERSON AVE -
 SCHOOL**

**MECHANICAL
 FLOOR PLANS**

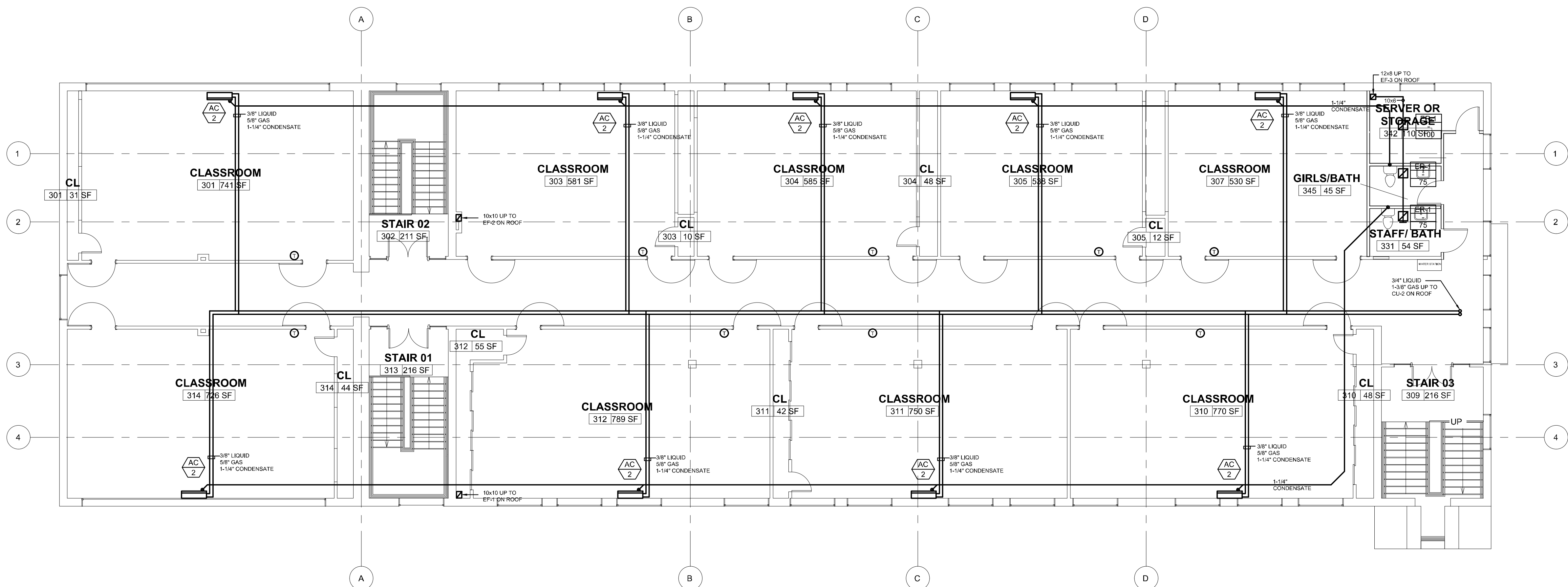
Project number N/A
 Date 05/01/2021
 Drawn by Author
 Checked by Checker

M100

Scale 1/8" = 1'-0"



1 SECOND FLOOR PLAN
 M200 SCALE: 1/8" = 1'-0"



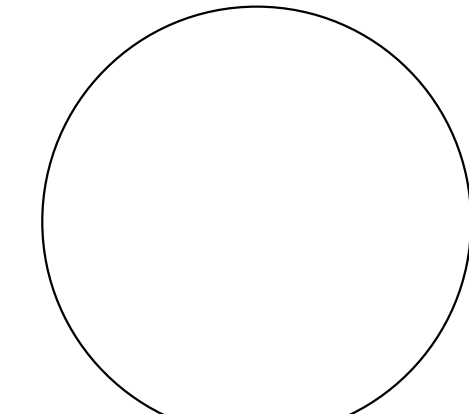
2 THIRD FLOOR PLAN
 M200 SCALE: 1/8" = 1'-0"

DRAFT

**PLATO
 MARINAKOS, JR.
 ARCHITECT, LLC**

www.plato-studio.com

107 S 2nd Street
 4th Floor
 Philadelphia, PA 19106
 267-866-0930 OFFICE
 267-866-0931 DIRECT
 plato@plato-studio.com



ARCHITECT SEAL MUST BE IN RED INK

OWNER

ISSUED BY:
PLATO A. MARINAKOS JR ARCHITECT, LLC
 FOR "APPROVAL" BY OUR CLIENT AND CUSTOMER

CLIENT IS REQUIRED TO
 CHECK (X) ONE BOX APPROVED AS IS
 APPROVED AS NOTED
 ONLY

CLIENT SIGNATURE _____ DATE _____

NAME (PLEASE PRINT) _____

KINDLY RETURN ALL DRAWINGS FOR THE COMPLETE
 BUILDING, SIGNED AND DATED TO OUR OFFICE
 LOCATION _____

**716 EMERSON AVE -
 SCHOOL**

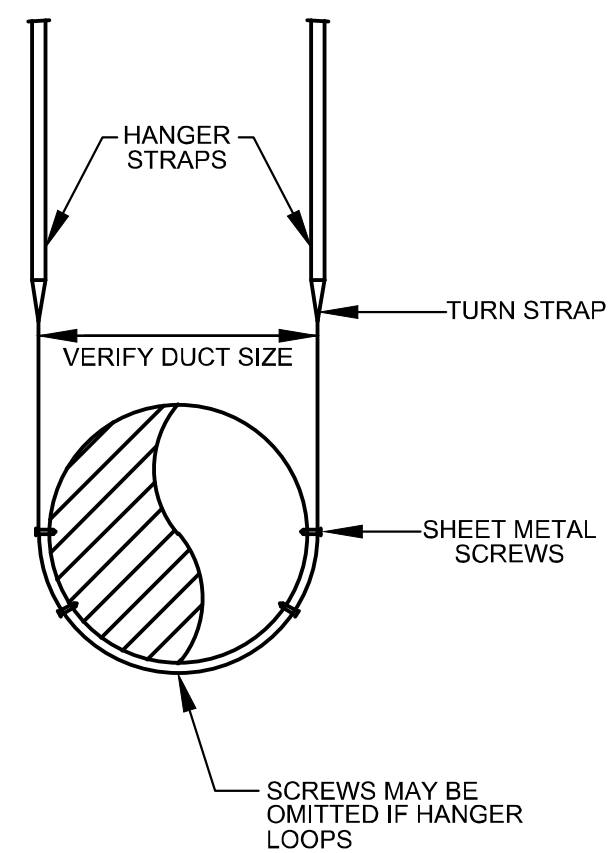
**MECHANICAL
 FLOOR PLANS**

Project number	N/A
Date	05/01/2021
Drawn by	Author
Checked by	Checker

M200

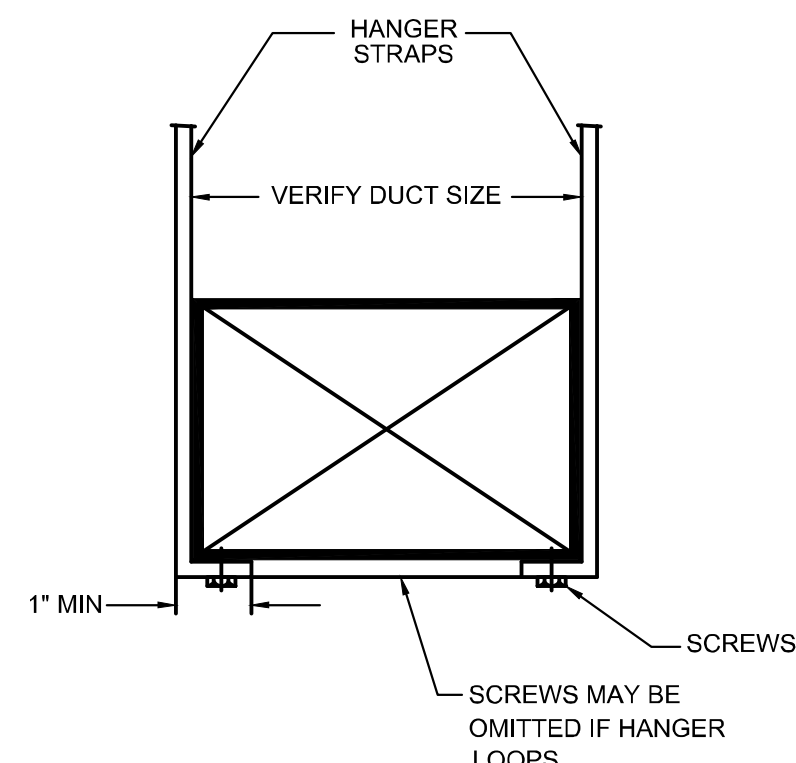
Scale 1/8" = 1'-0"

5/24/2021 11:38:44 AM



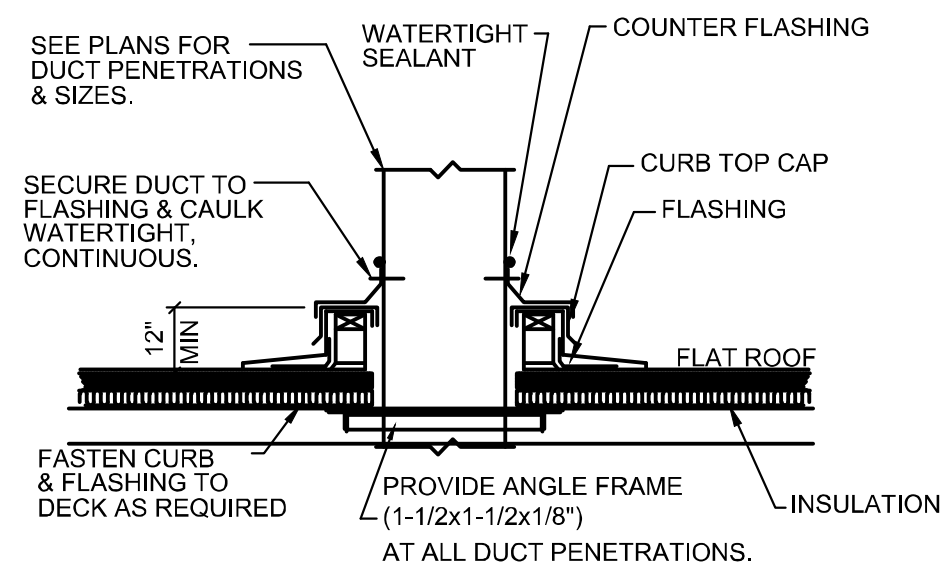
1 ROUND DUCT SUPPORT DETAIL
M300 SCALE: NTS

NOTES: 1. REFER TO SMACNA HVAC DUCT CONSTRUCTION STANDARD



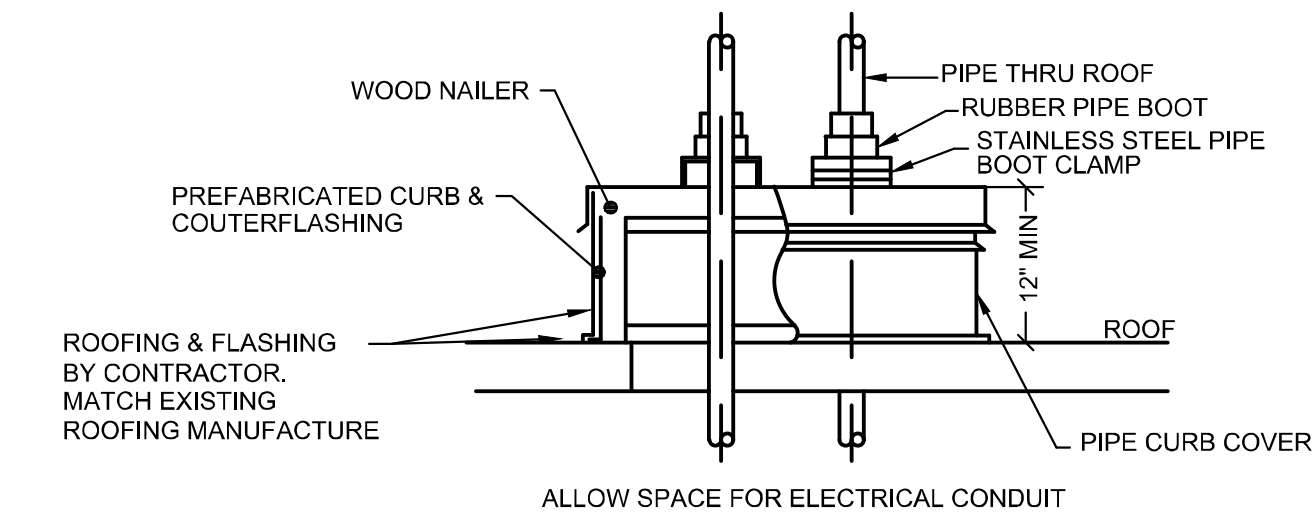
2 DUCT SUPPORT DETAIL
M300 SCALE: NTS

NOTES: 1. REFER TO SMACNA HVAC DUCT CONSTRUCTION STANDARD
TABLE - RECTANGULAR DUCT HANGERS MIN. SIZE SCHEDULE.

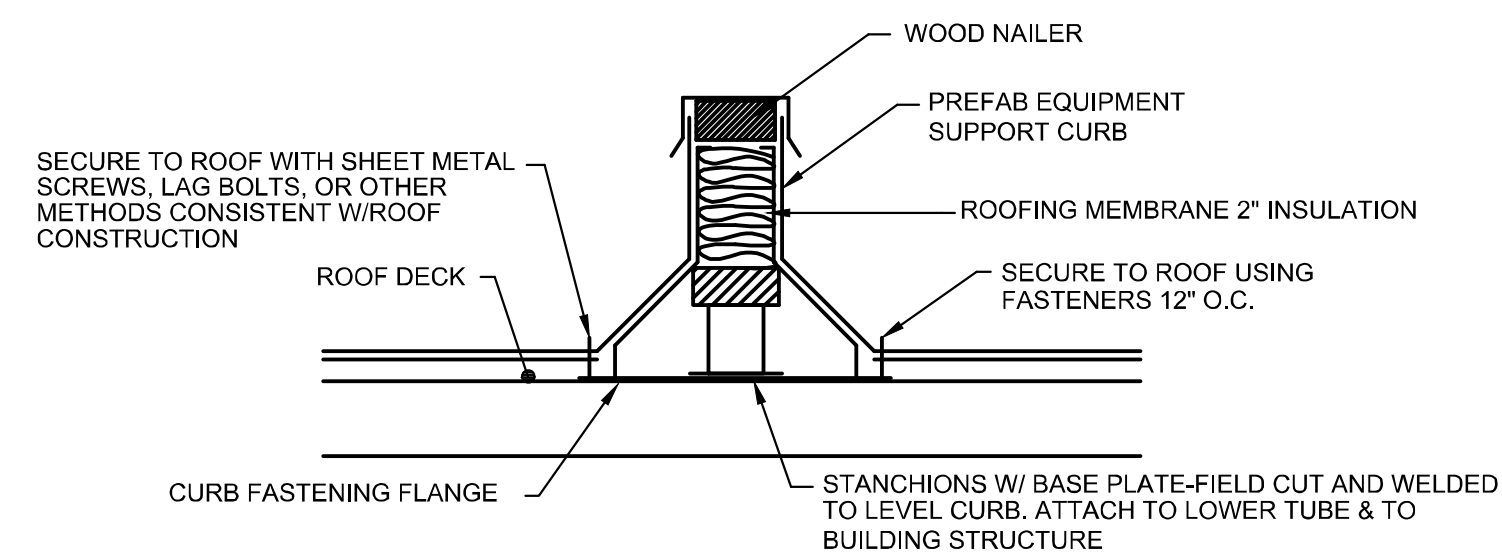


3 TYPICAL DUCT THROUGH ROOF DETAIL
M300 SCALE: NTS

NOTE:
SHIM CURB LEVEL AS NEEDED.

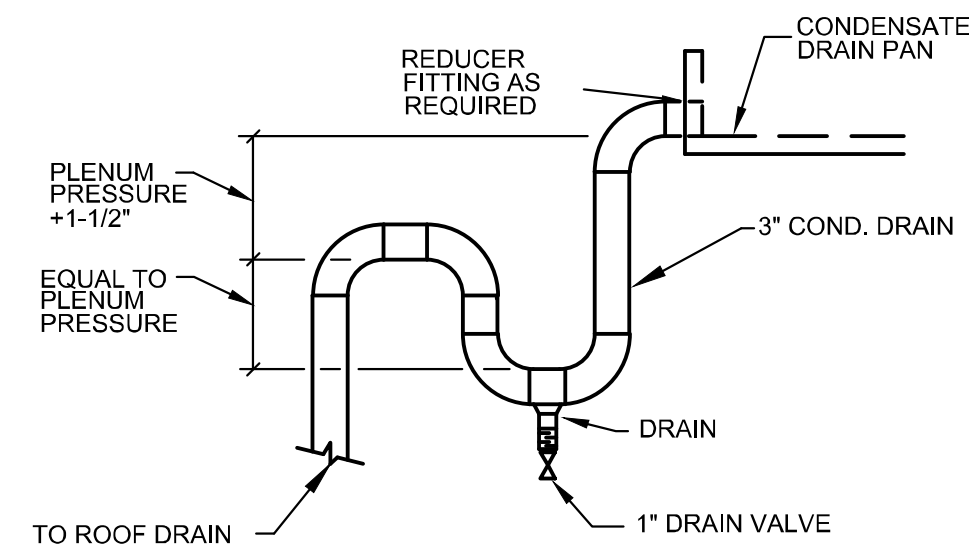


4 PIPE CURB DETAIL
M300 SCALE: NTS



5 EQUIP/PIPE CURB SUPPORT DETAIL
M300 SCALE: NTS

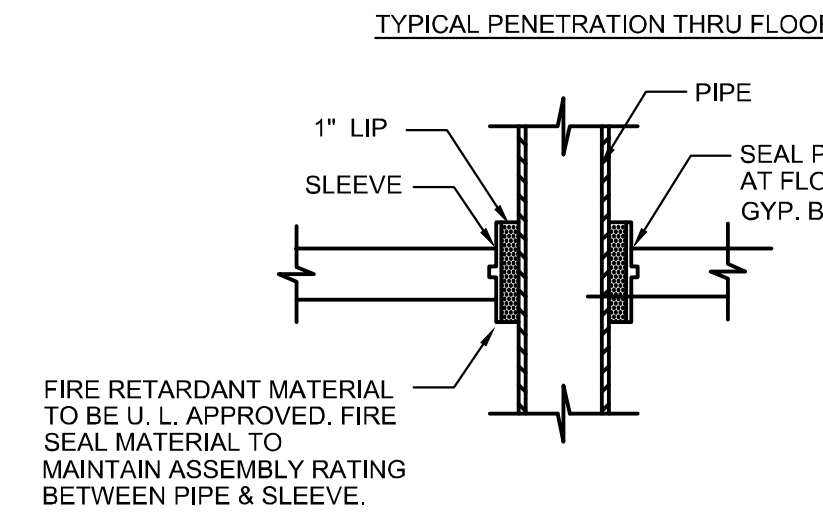
1- CURB MUST HANDLE WIND AND SEISMIC LOADS.
2- REFER TO UNIT MANUFACTURERS ROOF CURB INSTALLATION FOR EXACT EQUIPMENT INSTALLATION.



6 CONDENSATE DRAIN PIPING DETAIL
M300 SCALE: NTS

CONDENSATE TRAP SIZE SCHEDULE	
UNIT NOMINAL TONS (MAXIMUM)	MINIMUM TRAP DIAMETER
2	3/4"
5	1"
25	1-1/4"

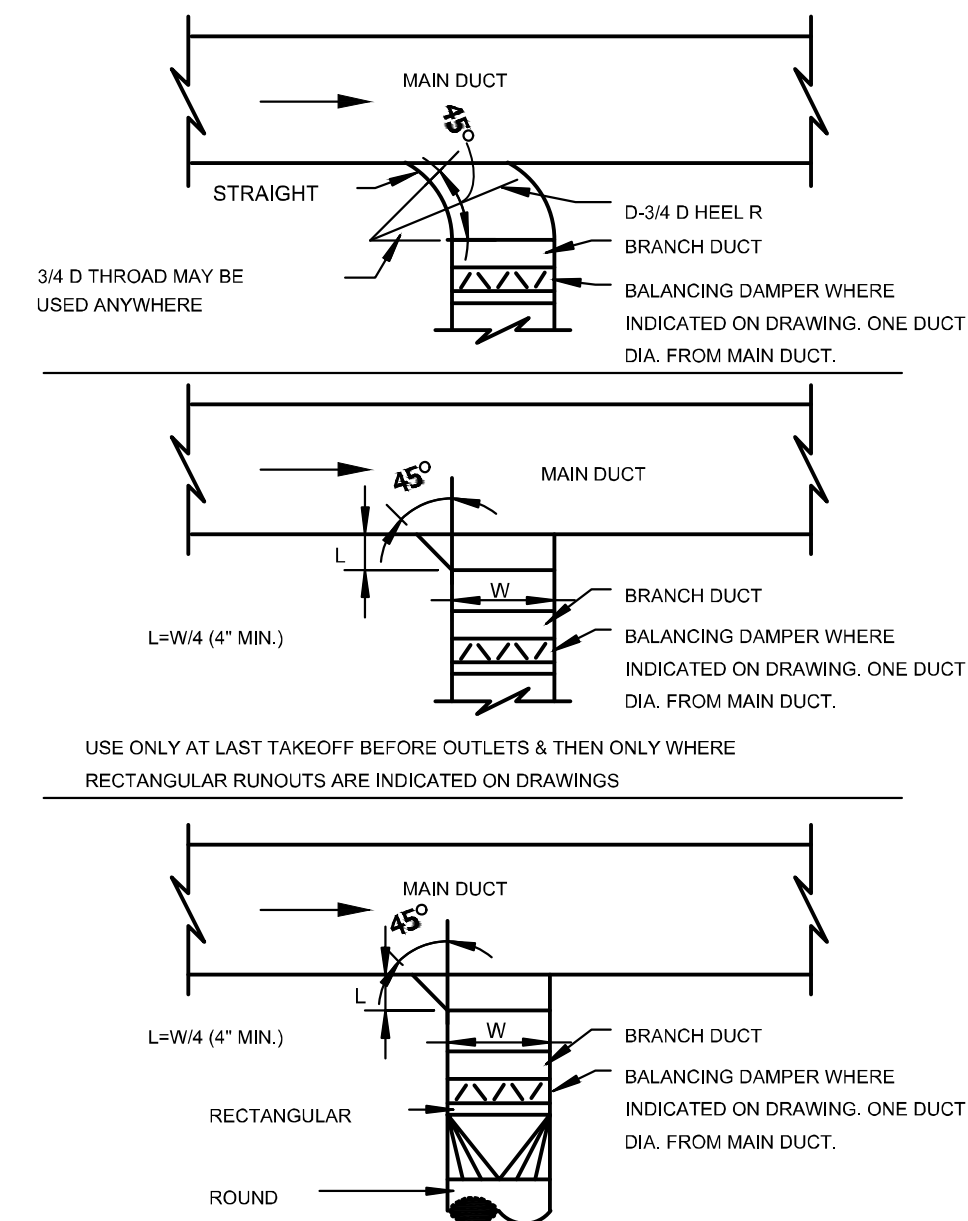
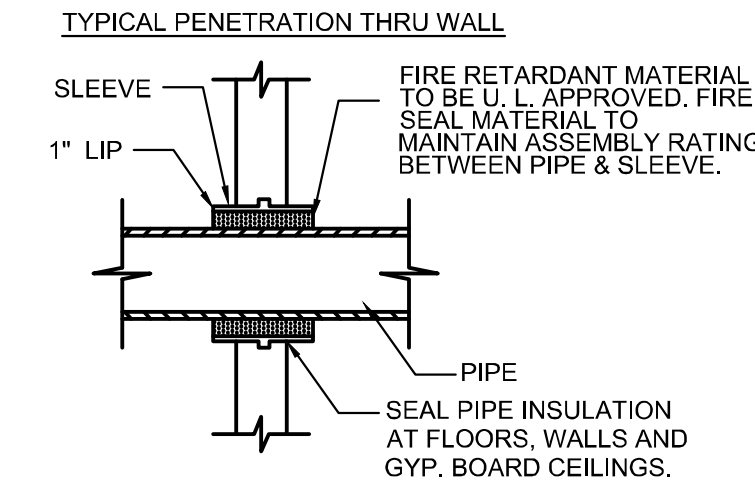
NOTE: SIZES ARE FOR EACH TRAP CONNECTION. EXAMPLE: AHU/2-65 TONS, REQUIRES TWO 2" TRAPS AS NOTED ON DRAWINGS.



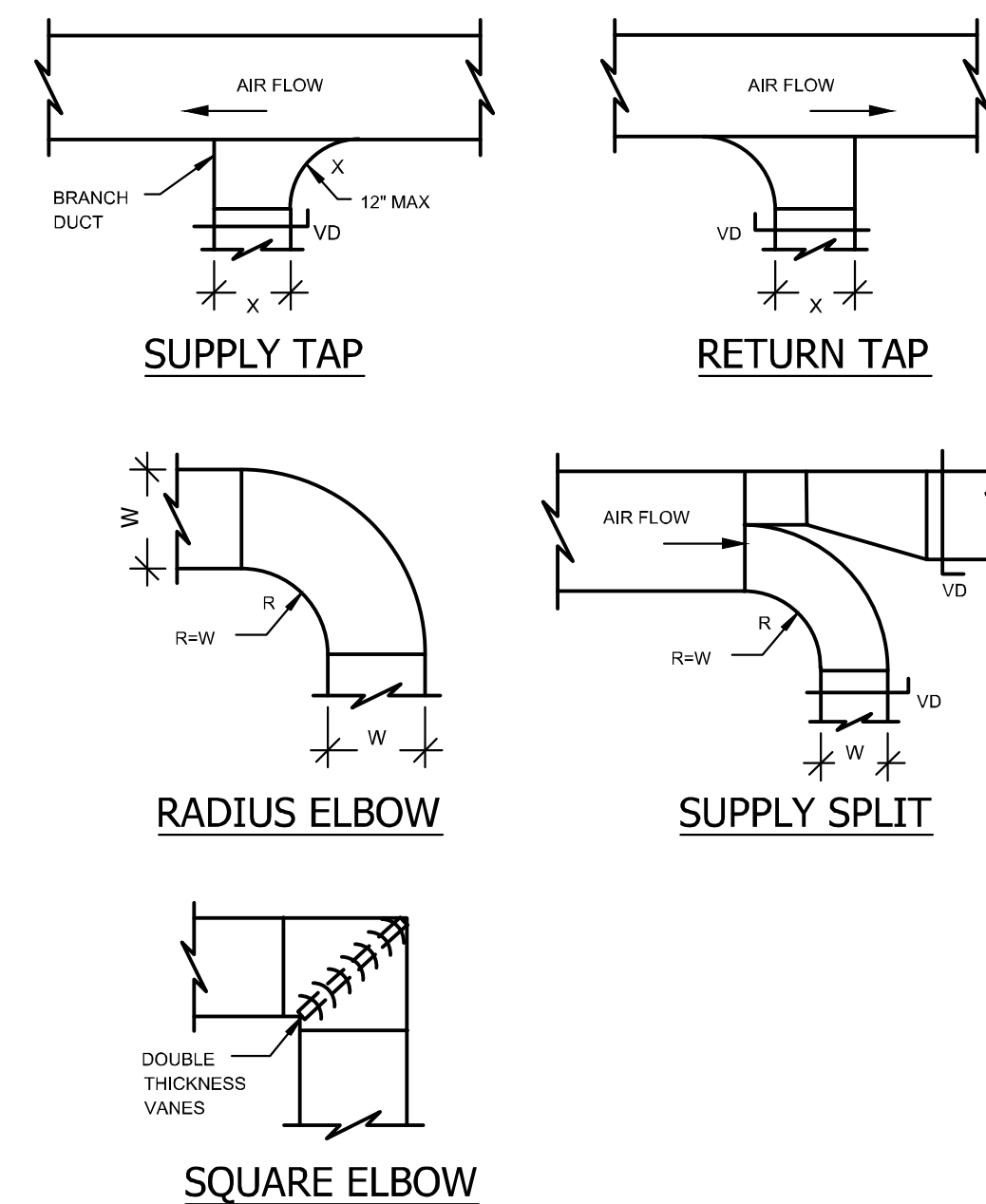
MATERIAL	U.L. NUMBER REQ'D		
	GYPSUM WALL	CMU WALL	FLOOR
STEEL PIPE STEEL PIPE	428	594	272
W/INSULATION COPPER	444	444	443
PIPE COPPER PIPE	442	442	429
W/INSULATION	445	335	335

7 PIPE SLEEVE DETAIL
M300 SCALE: NTS

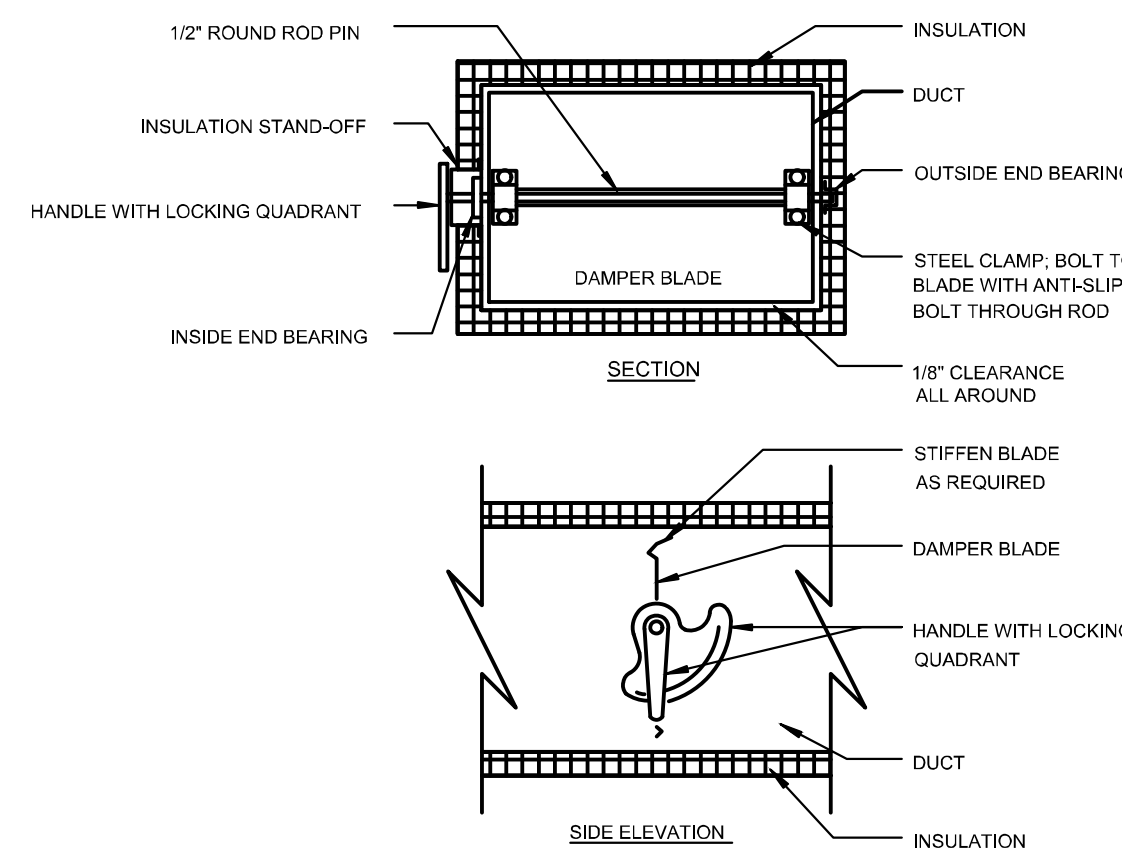
REFER TO ARCHITECTURAL PLANS FOR WALL RATINGS.



8 SUPPLY BRANCH TAKEOFF
M300 SCALE: NTS



9 DUCT CONSTRUCTION
M300 SCALE: NTS



NOTES:
1. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS AND ROUND DAMPERS.
2. SINGLE BLADE DAMPER LIMITED TO 12" MAXIMUM DUCT DEPTH.

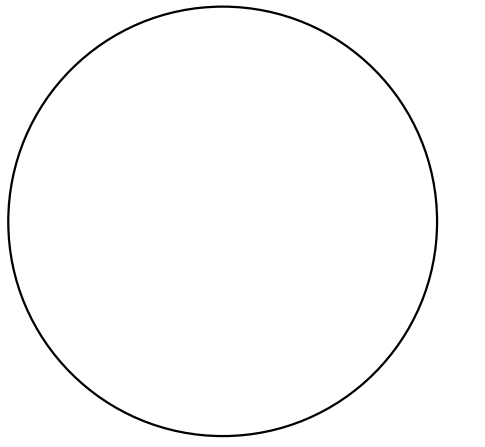
10 MANUAL VOLUME DAMPER
M300 SCALE: NTS

DRAFT

PLATO MARINAKOS, JR. ARCHITECT, LLC

www.plato-studio.com

107 S 2nd Street
4th Floor
Philadelphia, PA 19106
267-866-0930 OFFICE
267-866-0931 DIRECT
plato@plato-studio.com



ARCHITECT SEAL MUST BE IN RED INK

OWNER

ISSUED BY:
PLATO A. MARINAKOS JR ARCHITECT, LLC
FOR "APPROVAL" BY OUR CLIENT AND CUSTOMER

CLIENT IS REQUIRED TO CHECK (X) ONE BOX APPROVED AS IS APPROVED AS NOTED ONLY

CLIENT SIGNATURE DATE

NAME (PLEASE PRINT)

KINDLY RETURN ALL DRAWINGS FOR THE COMPLETE BUILDING, SIGNED AND DATED TO OUR OFFICE LOCATION

716 EMERSON AVE - SCHOOL

MECHANICAL DETAILS

Project number N/A
Date 05/01/2021
Drawn by Author
Checked by Checker

M300

Scale 1/8" = 1'-0"