

MECHANICAL VENTILATION CALCULATIONS						
ROOM	LIVING AREA (SQFT)	AVG. CEILING HEIGHT (FT)	LIVING AREA VOLUME (CU. FT)	# OF BEDROOMS	# OF OCCUPANTS	REQUIRED OUTSIDE AIR (CFM)
TYPE 2.1 FAIR HOUSING	977	9	8793	2	3	51

MECHANICAL VENTILATION CALCULATIONS (CONT.)				
APARTMENT UNIT	EXHAUST FAN	EXHAUST FAN CFM	AUTOMATIC OPERATION TIME PER HOUR (MINUTES)	PROVIDED VENTILATION (CFM)
TYPE 2.1 FAIR HOUSING	EF-6	110	0	51
TYPE 2.1 FAIR HOUSING	EF-8	110	28	51

DRYER VENT LENGTH

2020 FLMC SEC 504.8

"UNIT TYPE 2.1 LAUNDRY":

[2] 90° BEND = 10' + 9" [V] + 28" [H] = 47' > 35'

1.

INSTALLED DRYER MUST BE RATED BY MFG FOR VENT LENGTH OF 47' OR GREATER WHEN INSTALLED W/ (2) 40° 90° ELBOW(S).

2.

PROVIDE A PERMANENT PLACARD WITHIN 6' OF THE DRYER EXHAUST CONNECTION STATING EQUIVALENT LENGTH OF EXHAUST VENT. (2020 FLMC 504.8.5)

3.

DRYER VENT DUCT EXCEEDS 35 EQUIVALENT FEET. M.C. IS TO PROVIDE FIELD INSPECTOR WITH INSTALLATION INSTRUCTIONS FOR MAKE AND MODEL OF DRYER TO BE INSTALLED. IF DRYER DUCT IS TO BE CONCEALED, FIELD INSPECTOR IS TO INSPECT DUCT BEFORE BEING ENCLOSED IN STRUCTURE. (2020 FLMC 504.8.4.2)

4.

PROVIDE SHIELD PLATES ON THE FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4" OF MATERIAL BETWEEN DRYER DUCT AND FACE OF FRAMING MEMBER. SHIELD PLATES ARE TO BE OF STEEL AND HAVE A MINIMUM THICKNESS OF 0.062 INCHES AND EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES. (2020 FLMC 504.7)

TAGGED NOTES - THIS SHEET

1

DRYER VENT TO WALL CAP W/ BDD (NO SCREEN). CAULK BEHIND AND AROUND CAP WITH 100% SILICONE. MAINTAIN 10' CLEARANCE FROM ALL BUILDING AIR INTAKES.

2

BATHROOM EXHAUST TO WALL CAP W/ BDD AND INSECT SCREEN. CAULK BEHIND AND AROUND CAP WITH 100% SILICONE. MAINTAIN 10' CLEARANCE FROM ALL BUILDING AIR INTAKES.

3

40" DRYER VENT UP WALL. PROVIDE RECESSED DRYER BOX. SEE DETAIL REGARDING FIRE STOPPING OF DRYER VENT DUCTS.

4

PROVIDE TRANSFER GRILLE CENTERED OVER LAUNDRY CLOSET DOOR. GRILLE TO HAVE MINIMUM FREE AREA OF 100 SQIN. TURN BLADES TO FACE UP.

5

AIR HANDLER TO BE INSTALLED ON WALL IN CLOSET. SUPPLY TO DISCHARGE FROM TOP OF UNIT AND TO ABOVE CEILING. RETURN THROUGH FRONT OF UNIT. SEE DETAIL.

6

PROVIDE DOOR WITH LOUVER. LOUVER MINIMUM FREE AREA TO BE 480 SQIN. COORDINATE LOUVER SELECTION W/ ARCHITECT.

7

U.L. LISTED RE-CIRCULATING EXHAUST HOOD BY G.C..

8

PROVIDE TRANSFER GRILLE CENTERED OVER BEDROOM DOOR. GRILLE TO HAVE MINIMUM GRILLE AREA OF 75 SQIN. TURN BLADES TO FACE UP. PROVIDE 1" DOOR UNDERCUT.

9

PROVIDE TRANSFER GRILLE CENTERED OVER BEDROOM DOOR. GRILLE TO HAVE MINIMUM GRILLE AREA OF 100 SQIN. TURN BLADES TO FACE UP. PROVIDE 1" DOOR UNDERCUT.

GENERAL NOTES - THIS SHEET

1.

DUCTWORK ROUTING TO BE COORDINATED WITH STRUCTURE AND TRUSS SPACING.

2.

SEE BLDG PLAN FOR HEAT PUMP LOCATIONS.

3.

NO FLEXIBLE DUCTWORK TO BE USED FOR EXHAUST APPLICATIONS. RIGID METAL DUCTWORK ONLY.

4.

AIR HANDLERS STACKED ABOVE WATER HEATER. SEE DETAIL AND COORDINATE WITH P.C..

5.

SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.

6.

MECHANICAL CLOSETS AND THEIR CONTENTS MUST BE PLENUM RATED.

7.

M.C. TO COORDINATE DUCT LOCATIONS WITH P.C. AND AREA PLUMBING STACKS AND OVERHEAD WASTE AND VENT PIPING.

8.

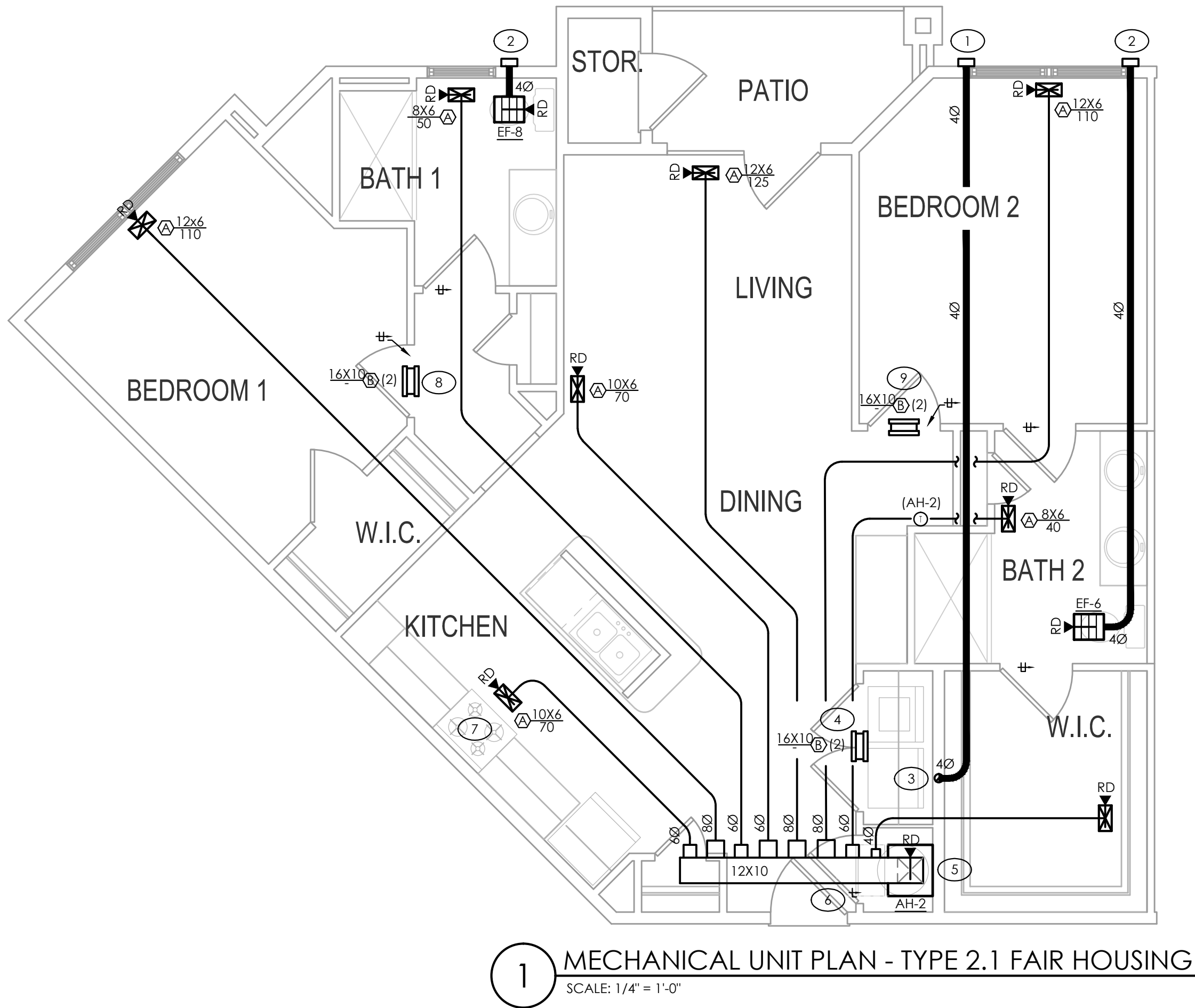
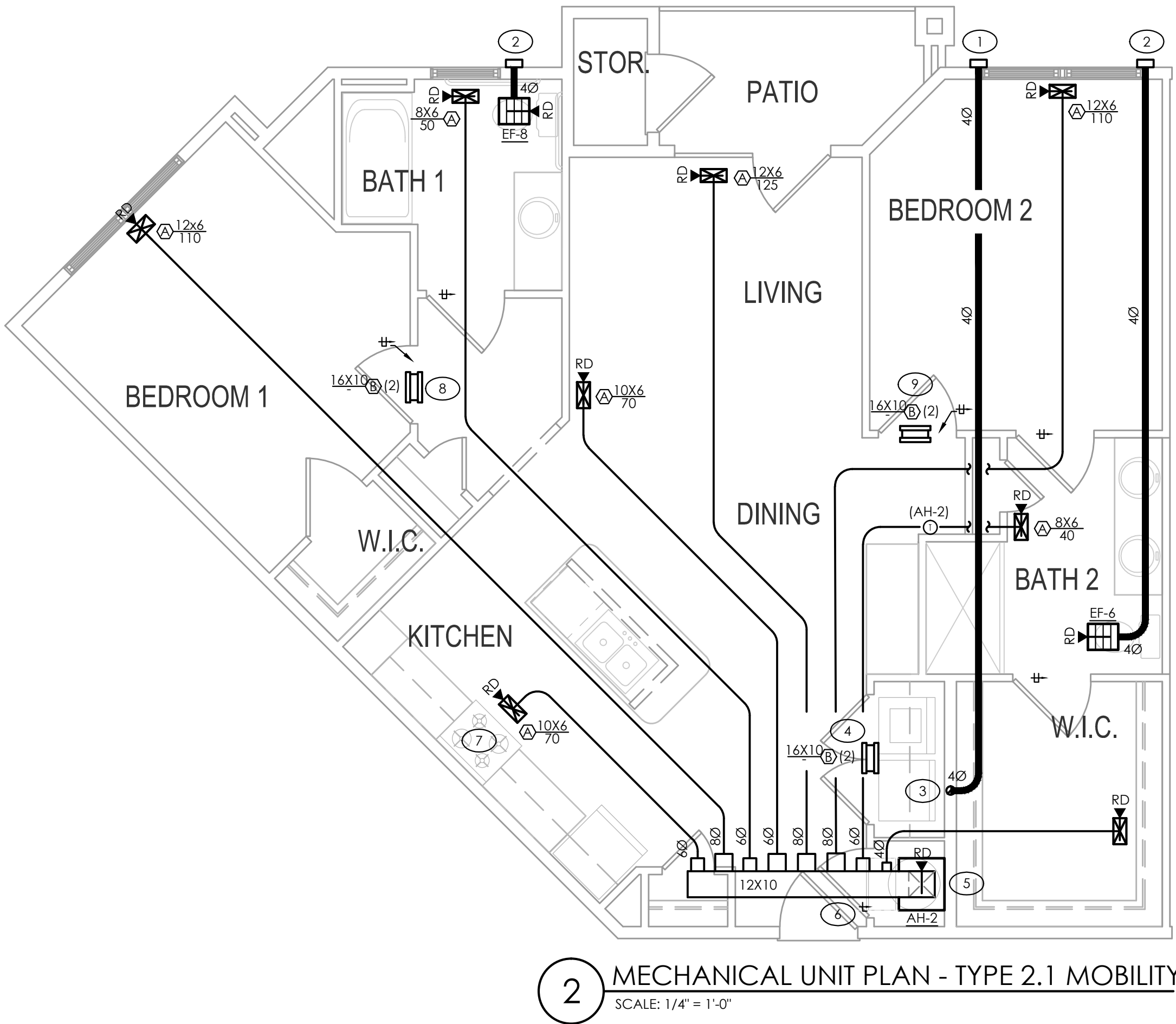
M.C. TO COORDINATE WITH E.C. AND AREA PANEL FEEDER LOCATIONS.

9.

M.C. TO COORDINATE WITH FIRE SPRINKLER CONTRACTOR AND AREA SPRINKLER PIPING.

10.

SEE DETAILS REGARDING FIRE STOPPING OF DRYER EXHAUST DUCTS.



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PLUMBING MECHANICAL ELECTRICAL

PROGRESS DATE:

11/17/21

ISSUE DATE:

11/17/21

REVISIONS

NUMBER

DATE

INITIALS

DESCRIPTION

PROJECT NO:

002221

DRAWN BY:

IAK

CHECKED BY:

ZLT

SHEET TITLE:

MECHANICAL  
UNIT PLANS

SHEET NUMBER:

M1.21