

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 2.2 FAIR HOUSING	1305	9	11745	2	3	69

MECHANICAL VENTILATION CALCULATIONS (CONT.)				
APARTMENT UNIT	EXHAUST FAN	EXHAUST FAN CFM	AUTOMATIC OPERATION TIME PER HOUR (MINUTES)	PROVIDED VENTILATION (CFM)
TYPE 2.2 FAIR HOUSING	EF-7	110	19	35
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			TOTAL OUTSIDE AIR	70

DRYER VENT LENGTH

2020 FLMC SEC 504.8

"UNIT TYPE 2.2, LAUNDRY";
(2) 90° BEND = 10' + 9' (V) + 20' (H) = 39' > 35'

1.

INSTALLED DRYER MUST BE RATED BY MFG FOR VENT LENGTH OF 39' OR GREATER WHEN INSTALLED W/ (2) 40° 90° ELBOW(S).

2.

PROVIDE A PERMANENT PLACARD WITHIN 4' 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 ABOVE CEILING IN ADJACENT UNIT TYPE 1.0 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 ABOVE CEILING IN ADJACENT UNIT TYPE 1.0 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. PROVIDE AIR HANDLER W/ MFG'S WALL PANEL FOR RETURN AIR AND AIR HANDLER ACCESS. SEE DETAIL.

6

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

7

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.

8

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 HEATERS. SEE DETAIL AND COORDINATE WITH P.C..

5.

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

6.

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

7.

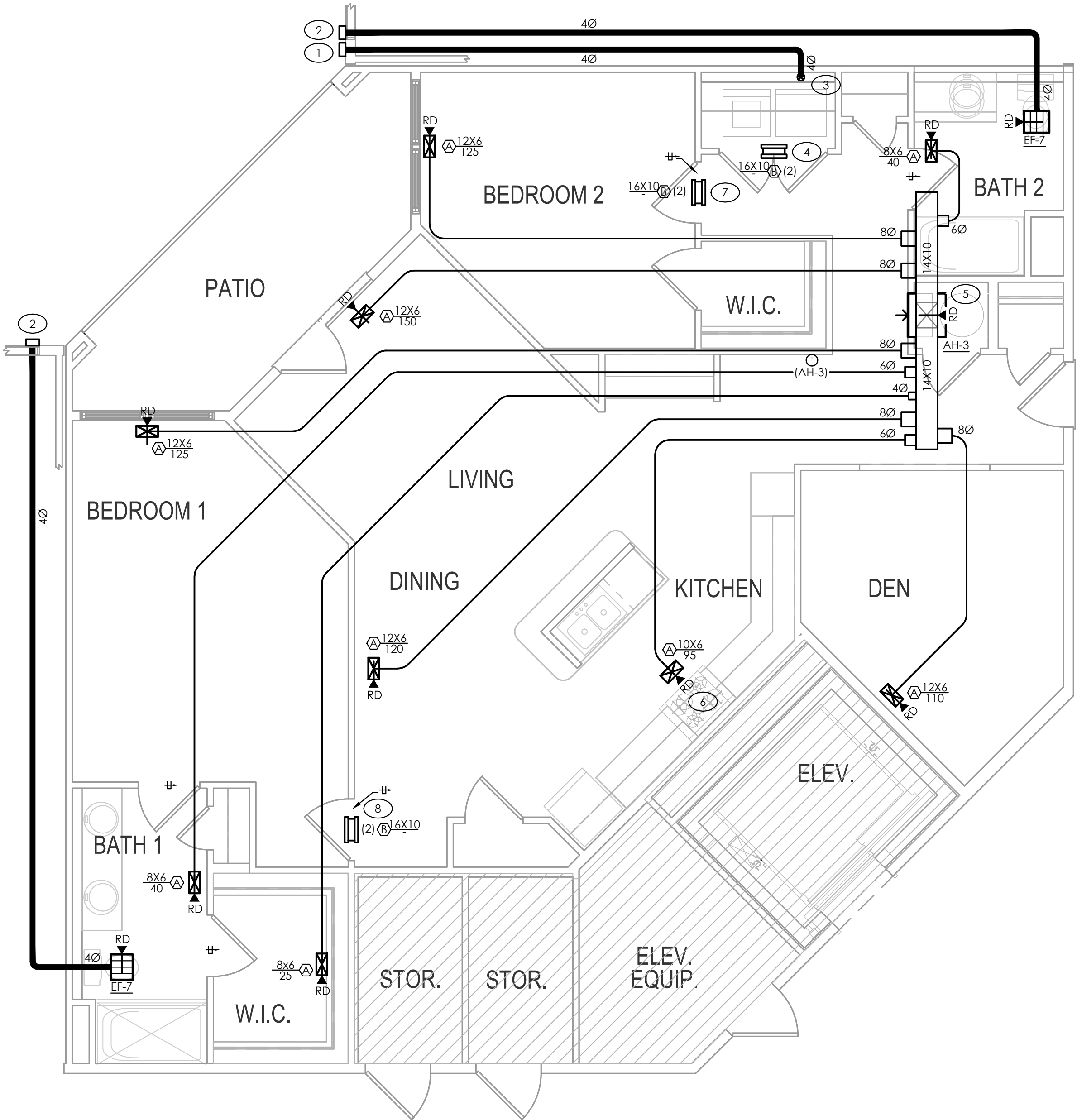
M.C. TO COORDINATE WITH E.C. AND AREA PANEL FEEDER LOCATIONS.

8.

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

9.

SEE DETAILS REGARDING FIRE STOPPING OF DRYER EXHAUST DUCTS.



1

MECHANICAL UNIT PLAN - TYPE 2.2 FAIR HOUSING

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

P

PLANWORX

ARCHITECTURE

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Oasis at Surfside - Phase II

Zimmer Development Company

Cape Coral, Florida

PERMIT SET

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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:

M1.22