



PLANWORX
ARCHITECTURE

5711 SIX FORKS ROAD, SUITE 100
RALEIGH NC 27609
website www.planworx.com

DRYER VENT LENGTH	
2020 FLMC SEC 504.8	
"UNIT TYPE 1.0 FAIR HOUSING":	
(1) 90° BEND = 5' + 9' (V) + 18' (H) = 32' < 35'	
1. INSTALLED DRYER MUST BE RATED BY MFG FOR VENT LENGTH OF 32' OR GREATER WHEN INSTALLED W/ (1) 40° 90° ELBOW(S).	
2. 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. (2020FLMC 504.7)	

MECHANICAL VENTILATION CALCULATIONS					
ROOM	LIVING AREA (SQFT)	AVG. CEILING HEIGHT (FT)	LIVING AREA VOLUME (CU. FT)	# OF BEDROOMS	# OF OCCUPANTS
TYPE 1.0 FAIR HOUSING	657	9	5913	1	2
TYPE 1.0 MOBILITY	657	9	5913	1	2
TYPE 1.1 FAIR HOUSING	657	9	5913	1	2

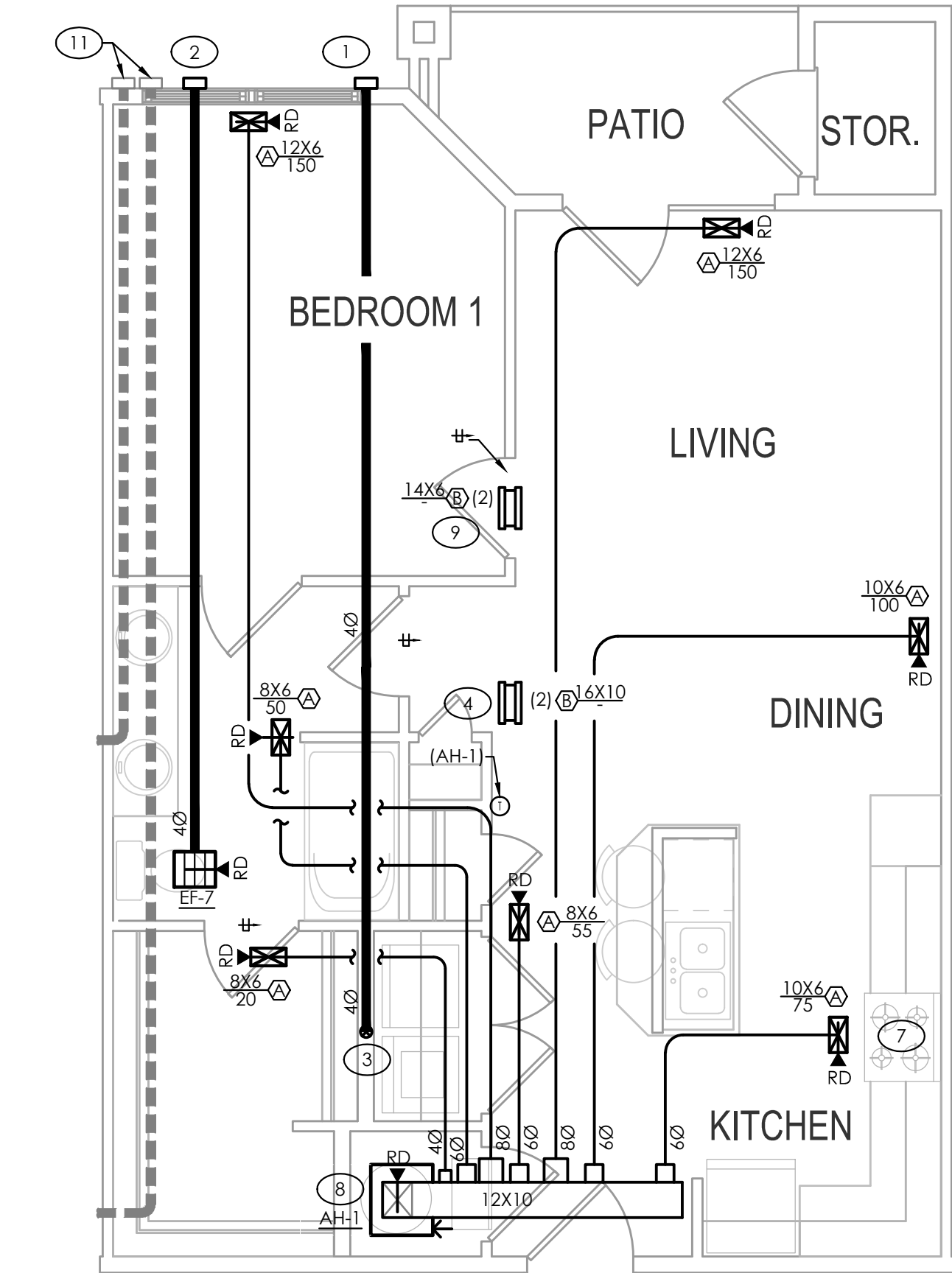
MECHANICAL VENTILATION CALCULATIONS (CONT.)				
APARTMENT UNIT	EXHAUST FAN	EXHAUST FAN CFM	AUTOMATIC OPERATION TIME PER HOUR (MINUTES)	PROVIDED VENTILATION (CFM)
TYPE 1.0 FAIR HOUSING	EF-7	110	19	35
TYPE 1.0 MOBILITY	EF-7	110	19	35
TYPE 1.1 FAIR HOUSING	EF-7	110	19	35

DRYER VENT LENGTH	
2020 FLMC SEC 504.8	
"UNIT TYPE 1.0 MOBILITY":	
(1) 90° BEND = 5' + 9' (V) + 18' (H) = 32' < 35'	
1. INSTALLED DRYER MUST BE RATED BY MFG FOR VENT LENGTH OF 32' OR GREATER WHEN INSTALLED W/ (1) 40° 90° ELBOW(S).	
2. 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. (2020FLMC 504.7)	

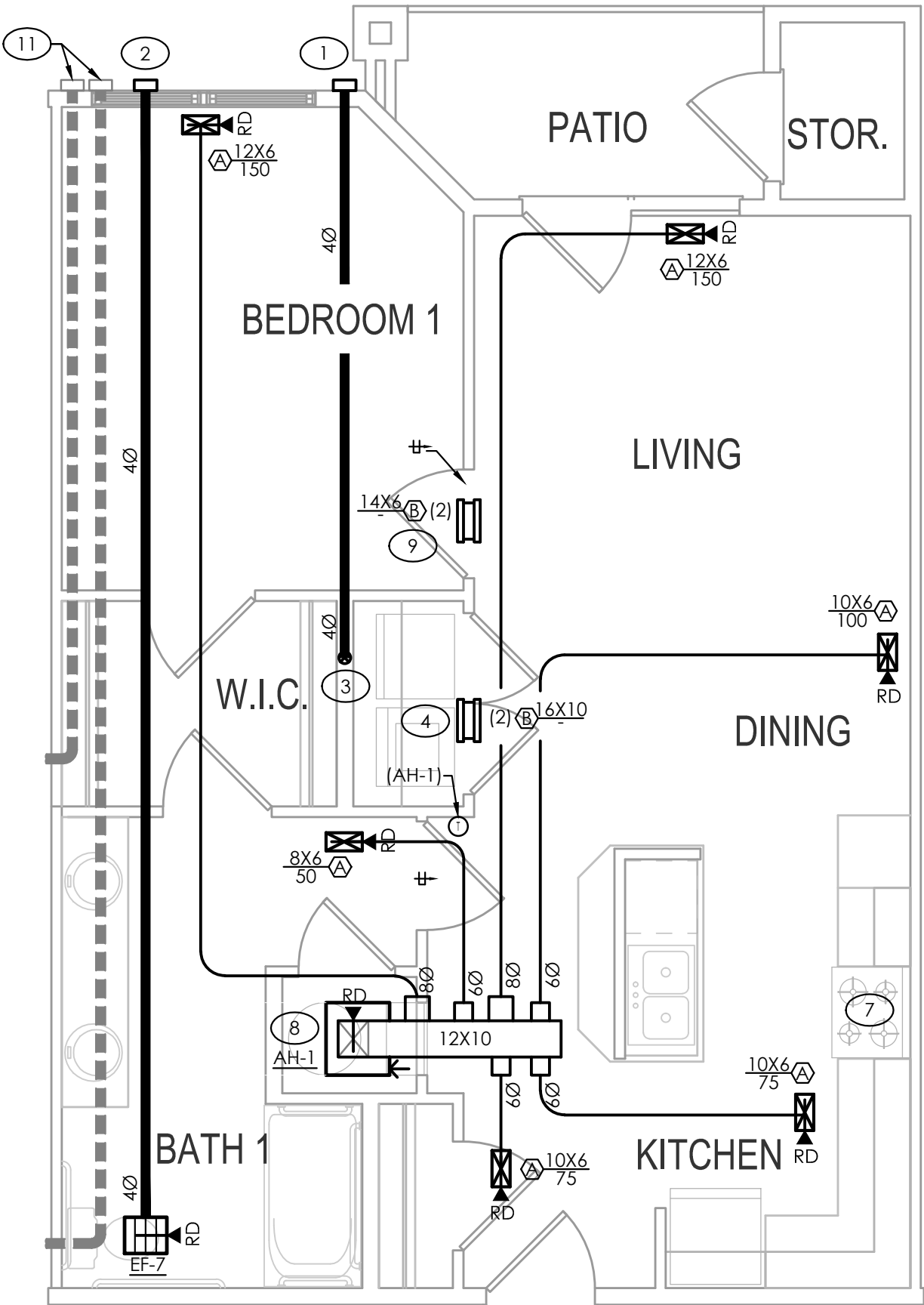
DRYER VENT LENGTH	
2020 FLMC SEC 504.8	
"UNIT TYPE 1.1 FAIR HOUSING":	
(1) 90° BEND = 5' + 9' (V) + 18' (H) = 32' < 35'	
1. INSTALLED DRYER MUST BE RATED BY MFG FOR VENT LENGTH OF 32' OR GREATER WHEN INSTALLED W/ (1) 40° 90° ELBOW(S).	
2. PROVIDE SHIELD PLATES ON THE FACE OF ALL FRAMING MEMBERS WHERE 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. (2020FLMC 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.	7 U.L. LISTED RE-CIRCULATING EXHAUST HOOD BY G.C..
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.	8 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.
3 40 DRYER VENT UP WALL. PROVIDE RECESSED DRYER BOX. SEE DETAIL REGARDING FIRE STOPPING OF DRYER VENT DUCTS.	9 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.
4 PROVIDE TRANSFER GRILLE CENTERED OVER LAUNDRY CLOSET DOOR. GRILLE TO HAVE MINIMUM FREE AREA OF 100 SQIN. TURN BLADES TO FACE UP.	10 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.
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. PROVIDE WITH FILTER. SEE DETAIL.	11 UNITS TYPE 1.0 ADJACENT TO UNITS TYPE 2.2 TO HAVE BATHROOM AND/OR DRYER EXHAUST DUCT SERVING UNIT TYPE 2.2 ROUTED ABOVE CEILING IN AREA SHOWN BY DASHED LINE. SEE SHEET M132 FOR UNIT TYPE 2.2 DUCT ROUTING DETAILS.
6 PROVIDE DOOR WITH LOUVER. LOUVER MINIMUM FREE AREA TO BE 480 SQIN. COORDINATE LOUVER SELECTION W/ ARCHITECT.	

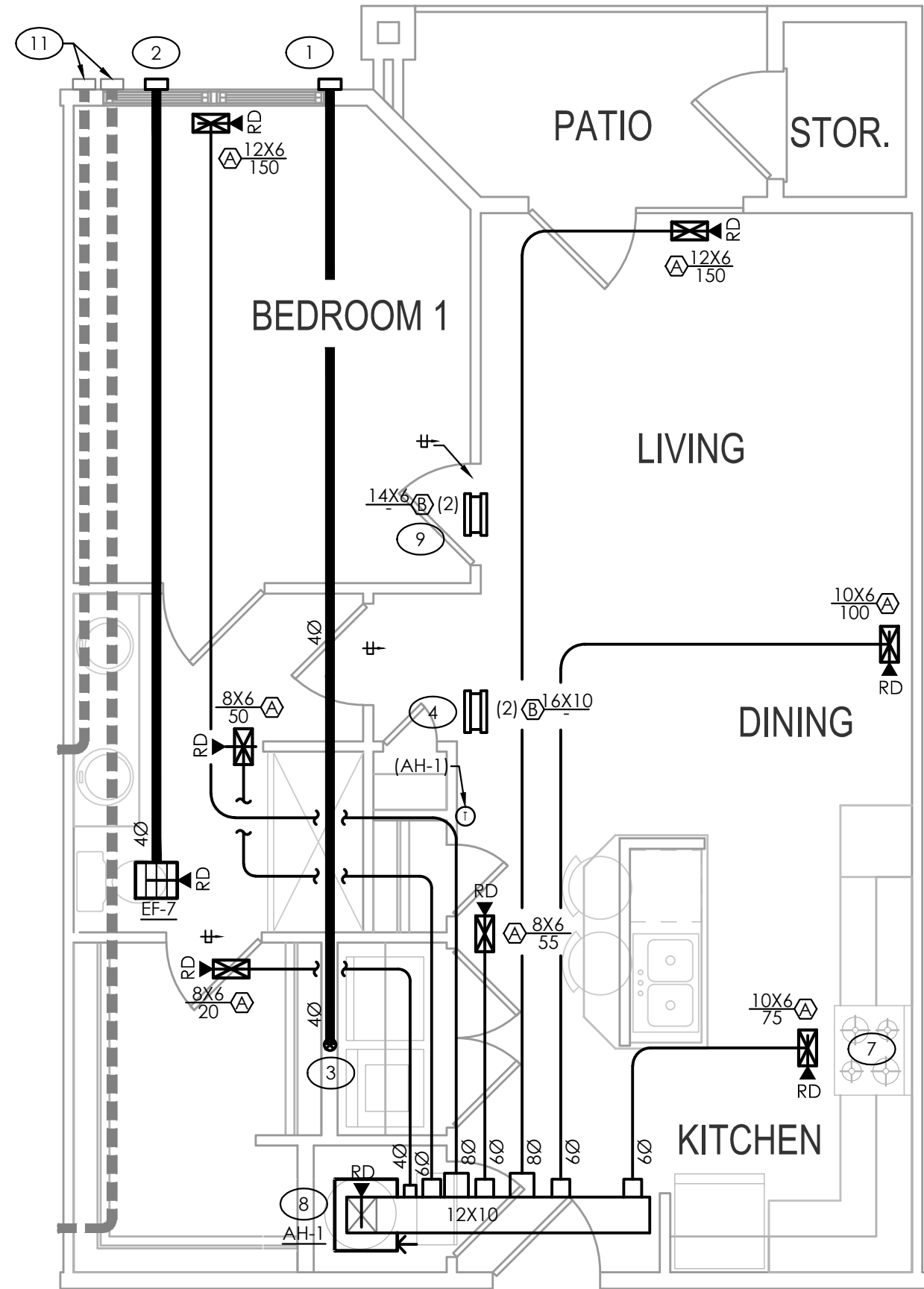
GENERAL NOTES - THIS SHEET	
1. DUCTWORK ROUTING TO BE COORDINATED WITH STRUCTURE AND TRUSS SPACING.	
2. SEE BLDG ROOF PLAN FOR HEAT PUMP LOCATIONS.	
3. NO FLEXIBLE DUCTWORK TO BE USED FOR EXHAUST APPLICATIONS. RIGID METAL DUCTWORK ONLY.	
4. AIR HANDLERS STACKED ABOVE WATER HEATERS. SEE DETAIL AND COORDINATE WITH P.C..	
5. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.	
6. MECHANICAL CLOSETS AND THEIR CONTENTS MUST BE PLENUM RATED IN UNIT TYPE 2.0.	
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.	



3 MECHANICAL UNIT PLAN - TYPE 1.0 FAIR HOUSING
SCALE: 1/4" = 1'-0"



2 MECHANICAL UNIT PLAN - TYPE 1.0 MOBILITY
SCALE: 1/4" = 1'-0"



1 MECHANICAL UNIT PLAN - TYPE 1.1 FAIR HOUSING
SCALE: 1/4" = 1'-0"

Oasis at Surfside - Phase II

Zimmer Development Company

Cape Coral, Florida

PERMIT SET



708 BT. HARRIS ST.
RALEIGH, NC 27605
P: 919-341-4847 F: 919-890-3797

PLUMBING MECHANICAL ELECTRICAL

PROGRESS DATE: 11/17/21

ISSUE DATE:

REVISIONS

NUMBER

DATE

INITIALS

DESCRIPTION

PROJECT NO: 002221

DRAWN BY: JAK

CHECKED BY: ZLT

SHEET TITLE:

MECHANICAL

UNIT PLANS

SHEET NUMBER:

M1.20