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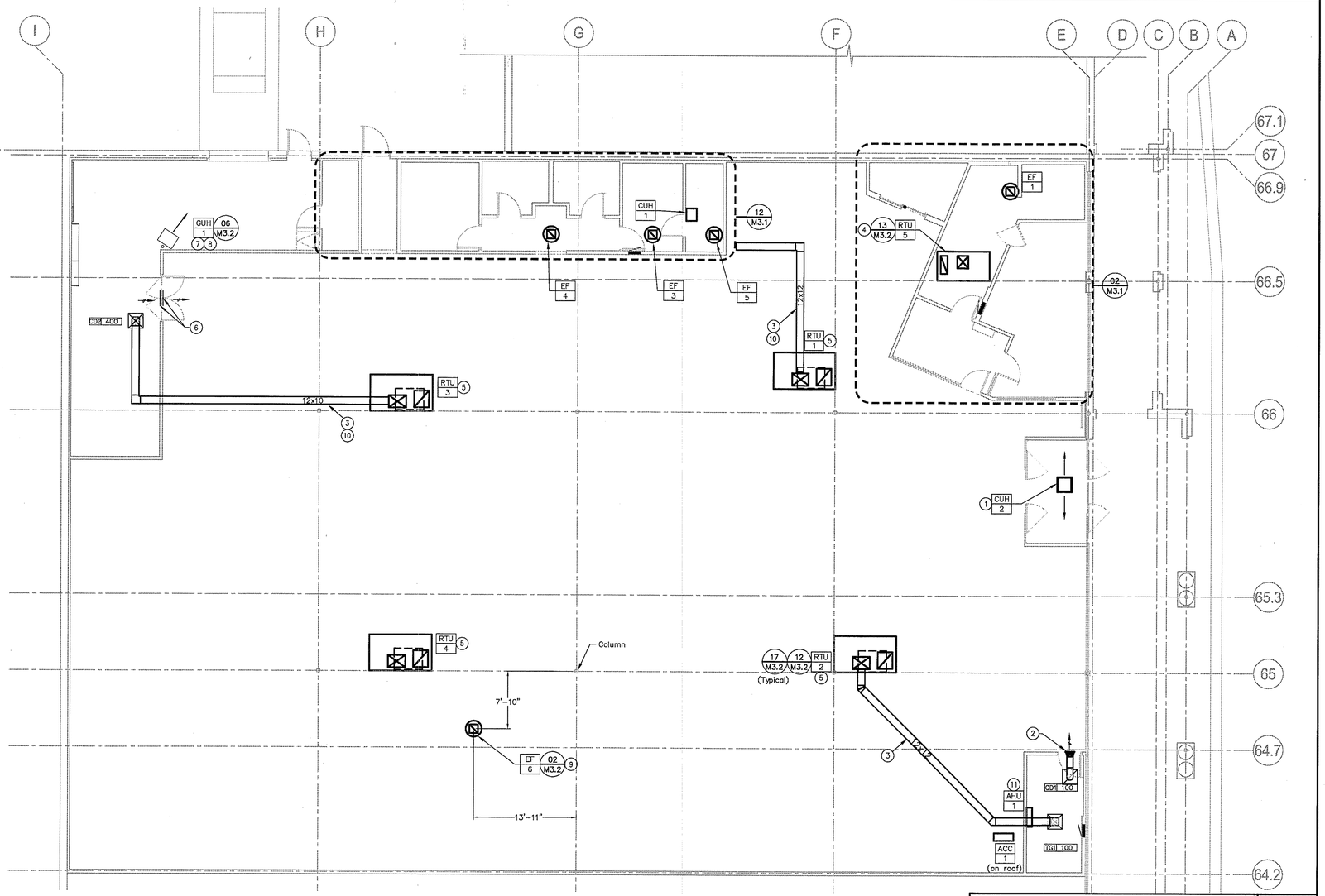


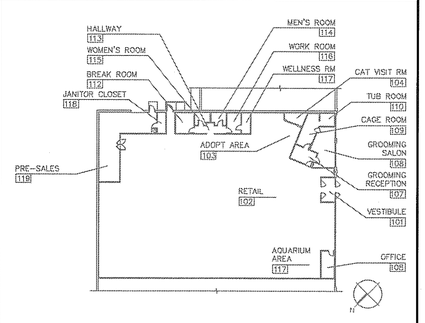
NOTES FOR THIS DRAWING

1. See structural drawings for exact placement of rooftop HVAC units, exhaust fans, supply air and return air openings and locations through roof. Carefully locate roof top units such that concentric diffusers falls in a structural bay.
2. Refer to architectural reflected ceiling plan for exact placement of ceiling diffusers and grilles.
3. Temperature in the Wellness Room must be maintained between 74°F and 78°F.
4. Install duct smoke detectors in accordance with notes on Rooftop Unit Schedule and HVAC General Notes.
5. Exhaust fans in open Retail Area are dimensioned so that the equipment is located in close proximity to the store fixtures they are serving. The purpose is to minimize any offsetting of ductwork for cost and aesthetic reasons. Contractor may locate fans up to 12" from location shown to avoid structure and other interferences. Verify with PETCO Project Manager during this process.
6. Unless otherwise noted, all ductwork is rectangular sheet metal. Exposed supply and return ductwork shall be internally lined to within twenty feet (20) from the HVAC unit, while concealed supply ductwork shall be wrapped. Refer to Project Manual for details. The Contractor, at his discretion, may use round ductwork with properly installed external duct wrap insulation in concealed areas, and may use round or spiral, (internally lined where applicable) ductwork in exposed areas.
7. In exposed areas, roof openings for HVAC equipment shall be limited, where possible and practical, to accommocate the duct openings and no more, the intent being to maintain a neat and aesthetically pleasing finished product with as much of the roof itself intact as possible.
8. Refer to sheet E2.5 for control devices.
9. See architectural drawings with respect to providing washable ceiling tiles, for projects that will require a dropped ceiling on the sales floor, adjacent to the diffusers for a distance of 4 ft. radius from discharge of the diffuser's edge.

KEYNOTES (SYMBOLS ①,② ETC.)

1. Orient CUH such that airflow pattern is as indicated.
2. 12" x 12" wall transfer grille. Mount bottom at 14'-2" AFF.
3. HVAC Contractor to coordinate with all other trades prior to installation of this ductwork.
4. Locate this rooftop unit such that the supply and return ductwork from the unit are within the walls surrounding this area (no exposed ductwork on Retail side of wall).
5. The rooftop package includes a prefabricated concentric return/supply diffuser for each rooftop unit as shown, type CCD 46" x 34" (refer to diffuser and register schedule). Contractor shall fabricate sheet metal duct extension to meet proper outlet height. Outlet height shall range between 13'-0"AFF to bottom of diffuser (min.) and 8" below steel to top of diffuser (max.). All diffusers shall be the same height. The HVAC contractor shall provide misc. steel (channels, angles, etc.) to support ducts, diffuser, plenum as required. Connect miscellaneous steel to building structure in a manner acceptable to the architect. The HVAC contractor shall adjust the pattern of the supply air outlets as required to provide approximately equal air quantities and full coverage of the retail area. If required by field conditions, irregular air flow patterns or unequal air flows may be obtained by closing front vanes at ends of outlets.
6. 14" x 14" wall transfer grille. Mount bottom at 13'-2" AFF.
7. Provide double wall vent up through roof with weather cap. See detail 06/M3.2 for additional information and specifications. Terminate not less than 5'-0" above top of unit heater and in no case less than required by detail 06/M3.2. Provide listed adapter and connection to unit. Limit horizontal run to a maximum of 2'-0" and limit quantity of elbows to one (1).
8. Support four (4) places with 3/8" all thread with vibration isolator from unistrut spanning bottom cord of joists. Maintain clearances to combustibles as published by the manufacturers. Mount top 1'0" below bottom of bar joists or at 14'-0"AFF, whichever is lower.
9. 8" spiral duct from roof exhaust fan, off-setting in joist space as necessary and drop to habitats. Mechanical Contractor to coordinate installation with PETCO vendor. See 02/M3.2 for more information.
10. Install duct tight to bottom of structure and route through girder. Transition ductwork as required. Verify prior to start of construction that ductwork will fit through girder, coordinate with Petco construction manager if ductwork will not fit.
11. AHU to be mounted on wall, top of unit 6' to 12" below ceiling. Coordinate with ceiling height and shelving in this area. Coordinate with Plumbing Contractor for condensate piping to Aquatics area floor sink.

MECHANICAL PLAN	06
REF.:	1/8" = 1'-0"



KEY PLAN	01
REF.:	NO SCALE

MEP Engineer of Record
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14817 West 95th Street
Lenexa, Kansas 66215
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PETCO ANIMAL SUPPLIES STORES, INC.
PETCO "CARY, NC"
213 CROSSROADS BOULEVARD
CARY, NC 27518

PETCO 9125 TECH DRIVE SACRAMENTO, CALIFORNIA 95121

DISTRIBUTION:	DATE:
25% SUBMISSION	01-15-10
75% SUBMISSION	01-29-10
98% SUBMISSION	02-25-10
ISSUED FOR CONSTRUCTION	02-26-10

SBLM JOB#	PETCO P.M. JOB #
09147	09277
DRAWN:	CHECKED:
MTH/JCC/JMM	BJT

DRAWING TITLE:
MECHANICAL PLAN

M2.1

5" 4" 3" 2" 1" 1/2" 0 1/4"