- CONTRACTOR(S) SHALL VERIFY EXISTING CONDITIONS AND CORRELATE DIMENSIONS PRIOR TO PROVIDING THE WORK DETAILED IN THESE DRAWINGS, AND SHALL PROMPTLY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- COPYRIGHT SBLM, ARCHITECTS PC, UNAUTHORIZED REPRODUCTION OR OTHER USE OF THIS DRAWING IS PROHIBITED.

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

INTRODUCTION

A. PURPOSE

1) This sheet provides some background information on what influenced the design shown on these documents.

2) Although some information contained herein applies to a specific trade, it may provide some insight to other trades.

B. DISTRIBUTION

1) The PME sheet should be duplicated and issued to the Plumbing, HVAC and Electrical Subcontractors along with their respective specific trade drawings.

2) Some PETCO vendors may also benefit from this information.

SPECIAL EMPHASIS, CONCERNS, AND LIMITATIONS

A. CONSTRUCTION

1) **Circuiting** – The building circuiting and wiring includes some subtle yet important features. Do not deviate from the wiring shown without specific permission from the PETCO Project Manager.

2) **Mounting** – No equipment shall be mounted directly to the underside of the roof.

3) **Equipment** – Long lead items must be ordered promptly to ensure timely deliveries.

B. COMMUNICATION

1) **Notification** – The Architect shall be notified immediately upon discovery of a problem or conflict. The Contractor shall promptly identify one or more proposed solutions but shall not proceed until so authorized.

2) **Coordination** – Coordinate the locations and orientations of all equipment with other trades.

C. LIMITATIONS

1) **Penetrations** – Roof and wall penetrations shall be limited to areas identified on the drawings. No deviations shall be made without written consent of the Architect.

2) **Locations** – Equipment shall be located within a reasonable distance of the locations shown.

3) **Interruptions** – If applicable, coordinate all disconnections and interruptions of plumbing, HVAC, fire suppression, electric and fire alarm systems with the building Owner. A schedule of interruptions and shutdowns shall be submitted to the Owner and approval received two weeks prior to any anticipated interruption. Provide building-wide fire watch during any fire alarm service interruption. Reactivate fire alarm system at the end of each working day.

D. CONTRACTORS' RESPONSIBILITIES

1) **Permits** – Each Subcontractor shall secure and pay for all required permits and shall arrange all required inspections for work under his trade.

2) **Existing Conditions** – Each Subcontractor shall familiarize himself with existing conditions to adequately and accurately bid, buy and construct this project. Some existing conditions are hidden conditions. When encountering such conditions during construction which require deviation from the documents, the Contractor shall submit a Request For Information (RFI) form, which can be found in the Project Manual. This form shall be accompanied by one or more proposed solutions. The intent is to define a scope of work for the successful contractor to evaluate and report on the existing conditions so that any adjustments to the proposed system can be reviewed, approved and resolved preferably prior to commencement of work and certainly before the completion of the contract.

3) **Coordination** – Each Contractor/Subcontractor shall coordinate his work with all other contractors and field conditions. Coordinate all roof penetrations with Roofing Subcontractor, maintaining roof warranty if applicable.

4) **Owner-supplied items (OSI)** – All Contractors/Subcontractors shall verify requirements before proceeding with the work.

5) **Signs** – Final sign locations and connections shall be coordinated with the Sign Contractor.

6) **Fixture Plan** – Verify latest fixture plan prior to installation of lighting, devices, etc., which depend on exact locations of store fixtures.

7) **Substantial Completion** – Make final connections and perform startup of equipment for complete and operational building upon completion. Refer to Architectural plans for responsibilities matrix.

E. STANDARDIZATION

1) **Prototype** – This project is not one of a kind. It is applying some characteristics of a prototype design to this site in order to maintain standardization. Also, some design decisions were based on the Owner's past experience. Therefore in some ways this project requires stricter adherence to the documents than normal projects.

2) **Product standardization includes**:

a) Security system
b) Point-of-sale (POS) system
c) Work Room sink
d) Fire alarm system
e) HVAC rooftop units
f) Washer/Dryer
g) Sound system
h) Telephone system
i) Lighting fixtures & lamps
j) Integrated Power & Control Assembly
k) Plumbing fixtures

3) **Functional standardization includes**:

a) Automatic individual control of HVAC units
b) Automatic group control of interior lighting
c) Automatic group control of outdoor lighting
d) Automatic group control of certain power

F. SPECIAL PURCHASING OR CONTRACTS

1) **General**

Refer to Architectural drawings for items not necessarily furnished by Contractors but have related responsibilities. These items must be integrated into the building construction schedule (ordering, shipping, installing) as if they were provided in total by the Contractor. Refer to Project Manual for PETCO vendors' names, contacts, and phone numbers.

2) **Contractor provided / Contractor installed**

The following items are furnished by the Contractor through a national account agreement between PETCO and the vendor and installed by the Contractor:

a) HVAC rooftop units
b) Lighting Fixtures
c) Integrated power & control assembly and loose electrical panels & controls.

SOME CODE, AGENCY, & REFERENCE STANDARDS INFORMATION

A. GENERAL

1) Entire installation shall comply with all local and state codes and other authorities having jurisdiction.

2) The installation shall be in accordance with all seismic requirements.

3) Where permitted by code, plastic waste & vent piping conforming to IAPMO and ASTM may be used when concealed below floor slabs or in walls & partitions. Support piping in accordance with the Pipe Support Schedule or per local requirements, whichever is more stringent. No plastic pipe may be installed in areas considered to be a plenum. Provide proper transition fittings between pipes of differing material.

B. APPLICABLE CODES AND REFERENCES:

1) All state and local codes and ordinances, applicable edition
2) NFPA 13 – Standard for the Installation of Sprinkler Systems
3) NFPA 54 – National Fuel Gas Code
4) NFPA 70 – National Electrical Code
5) NFPA 90A – Air Conditioning and Ventilating Systems
6) ASHRAE Handbooks – American Society of Heating, Refrigerating and Air Conditioning Engineers
7) SMACNA Handbook for Duct Construction

C. ACCESSIBILITY

1) **Application** – These documents reflect the design professionals' interpretation of the applicable ADA requirements and other known federal, state and local laws, rules, codes, ordinances and regulations as they apply to this project.

2) **Existing conditions** – All new work shall be in accordance with the Americans with Disabilities Act or the applicable Barrier Free Code, whichever is more stringent.

D. ANIMAL WELFARE

1) **Environment** – Some areas of the building have specific provisions for temperature and/or lighting control.

2) **Schedule** – There are no overnight stays for animals other than those for purchase, such as fish, small animals (such as hamsters & gerbils) and reptiles.

DOCUMENTS

A. DRAWING ORGANIZATION AND PRESENTATION:

1) **Drawing List** – Refer to Architectural drawings for drawing list

2) **How Notes are Used**

a) **General Notes** – One or more in list form which are not indicated specifically on a Plan, Section, Elevation or Detail.

b) **Notes For This Drawing** – General Notes located only on the drawing that applies.

c) **Key Notes** – Used in lieu of standard notes where they improve readability, Key Notes are gathered together and listed collectively on the drawings on which they are located.

3) **Miscellaneous**

a) **Terms** – The terms 'Sheet', 'Drawing' and 'Plan' are used interchangeably. The term 'Provide' means 'Furnish and Install'.

b) **Scale** – Printing of the plans is often reduced, so a graphic scale is provided on each sheet. Do not scale any drawings.

c) **Addenda & Revisions** – Some addenda and revisions are identified on the drawings using a number in a triangle. The number in the triangle links to the revision block in the title block section. Sometimes the most recent change is clouded to provide increased clarity.

B. SPECIFICATIONS

Technical specifications and responsibilities are included in the Project Manual.

C. COORDINATION

Store fixtures, furnishings, and equipment shall be installed and located in accordance with a store fixture layout plan provided at the time of deliveries to the job site of store fixtures and furnishings. Final locations may vary from as shown on the floor plans in this set of drawings.

GENERAL NOTES

A. ALL TRADES

1) **Responsibilities & coordination**

a) Refer to Project Manual for responsibilities regarding local permitting and utility company requirements, fees and inspections.

b) See architectural and structural drawings for additional information & details regarding roof curbs and penetrations, including insulating, flashing, counterflashing & sealing, and coordinate with the Roofing Subcontractor.

c) All equipment shall be furnished with shop drawings, installation guidelines, maintenance manuals, schedules, tags, and letter of guarantee in a binder (three-ring) with tabs. All equipment shall be installed in conformance with these documents and the equipment manufacturer's recommendations

d) Each contractor shall be responsible for all cutting and patching of any walls, roof, or floor during construction required by his trade. Openings where piping, ducts, conduits, etc. pass through walls, floors, or ceilings shall be closed off and sealed.

e) All field conditions and dimensions shown on the drawings shall be verified prior to submitting bids & prior to commencement of work (including unit orientation). No allowance will be made for not complying with this requirement.

f) Make final connections to Owner's equipment.

g) Verify the exact location of diffusers, lights, devices, etc., prior to installation. PETCO reserves the right to make minor adjustments to the locations as shown on the drawings prior to installation without additional compensation to the contractor.

2) **Construction**

a) Proper fire protection measures, satisfactory to the local fire department shall be taken when welding or cutting with torches or electric arc.

b) Remove all material made obsolete by this work. All removed equipment, materials and debris shall be legally disposed of off of site in accordance with all local, state and federal codes, rules and regulations.

c) There shall be no rigid contact between conduit, pipes, ceiling wires, and ductwork.

d) Structural support and fastening for all mechanical and electrical amenities for Bird Room (ductwork, sprinkler piping, conduit, etc.) shall be from structure above, not from Bird Room structure itself.

3) **Documentation**

a) Ductwork and piping layouts are schematic diagrams and are intended to show general arrangement, size and capacity and do not indicate which duct or pipe is above or below the other. All offsets are not necessarily shown. Contractor shall arrange and coordinate the work, furnish necessary offsets and fittings to avoid conflict with other mechanical and electrical services and structural and architectural elements without additional cost to the Owner.

b) If areas of conflict are encountered, the Architect shall be notified and Contractor's recommendations shall be submitted to the Architect for approval before work has begun.

B. ELECTRICAL

1) **Electrical Wiring, Equipment, Grounding & Wiring Methods –** Refer to Electrical drawings and Project Manual.

2) **Egress And Exit Lighting**

a) Egress lighting shall be provided by self-contained battery packs or battery ballasts integral to the lighting fixtures to provide 1 FC (minimum) throughout paths of egress, wired to the night light circuit except where noted.

b) Outside weatherproof emergency heads are to be located at each exit door.

c) Exit lights shall have self-contained battery packs.

d) The plans indicate the minimum number of emergency lights and exit signs required. The contractor shall provide any additional fixtures required by local authorities having jurisdiction to provide code required minimum light level and directional signs.

3) **Wiring Devices And Branch Circuits**

a) **Circuiting** – All conductors shall be copper unless explicitly required by a manufacturer's installation instruction (in which case the Engineer shall be notified) or otherwise expressly permitted or indicated elsewhere on the drawings or in the Project Manual. Minimum conduit size ¾" unless noted otherwise. No more than 3 circuits per 3/4" conduit. Derate conductors per code when grouping multiple circuits in a single conduit. Maximum voltage drop shall not exceed 2% for feeders and 3% for branch circuits. Contractor shall measure proposed routing and adjust accordingly. Do not share neutrals for single phase circuits. Do not share conduits with isolated ground circuits. No more than 6 duplex receptacles per circuit.

b) **Grounding** -- Conventional equipment shall be grounded in accordance with the NEC. Isolated grounding shall be provided for critical loads including, but not limited to, point of sale system, computer cataloguing system, and other sensitive loads. Refer to Electrical General Notes.

c) **Devices** – All devices shall be white specification grade except where noted otherwise. Device plates shall be white.

Some receptacles on controlled circuits are to be gray in color to differentiate them from uncontrolled circuits.

d) **Device heights** -- Shall be as follows except where noted otherwise

(1) Wall receptacles – 18" to center of device
(2) Counter receptacles – 6" above counter or as required
(3) Switches – 42" to center of device
(4) All devices – dimensioned to the center of the device

4) **Miscellaneous**

a) Conduit systems for data system shall be ¾" conduit for up to six CAT5 cables and/or for the equivalent of a single gang outlet box.

b) Provide conduit bushings for all conduit nipples, sleeves and runs from wall boxes to above ceiling.

c) The Electrical Subcontractor shall verify all low voltage requirements with PETCO Vendors. The Electrical Subcontractor shall provide conduit with pull strings as required.

NOTES FOR THIS PROJECT

A. DEVIATIONS FROM PROTOTYPE

1) General
a) Non-Prototype store layout due to existing shallow sanitary layout at front of building.

2) Plumbing
a) Shallow existing sanitary invert.

3) HVAC
a) Similar.

4) Electrical
a) Similar.

B. UTILITIES

1) Natural Gas - New gas distribution system from utility gas meter to all appliances, 7" WC.
Sewer - New sanitary piping distribution system inside building from all fixtures to existing service as indicated on plans.

2) Water - New water service from civil's service to new distribution system inside the building.

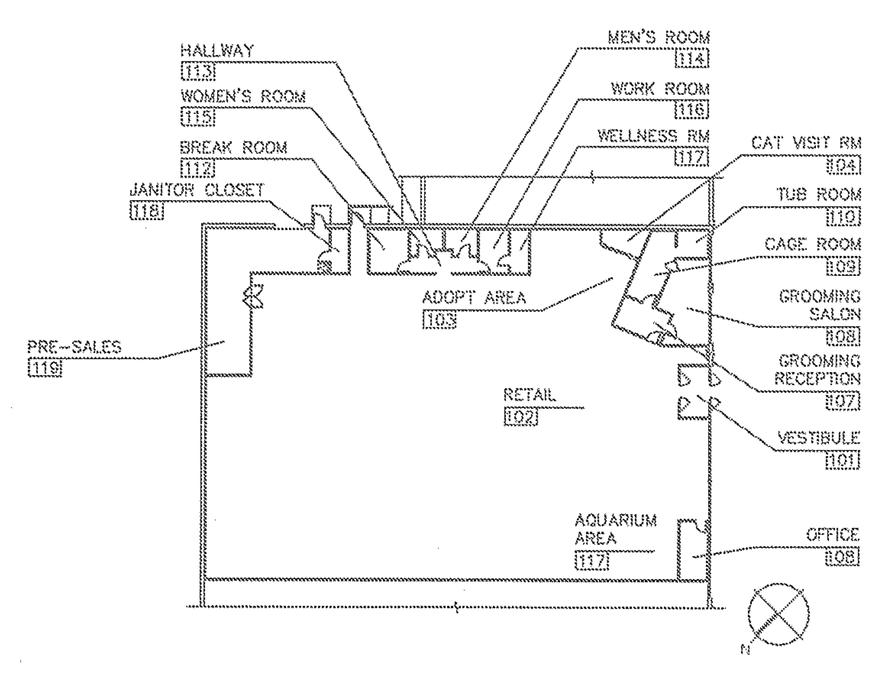
3) Fire Suppression - New sprinkler service from existing service to complete new system inside.

4) Electrical - New electric service including CT/meter assembly. New MDP and all new power distribution equipment. Contractor shall coordinate activities with the local electric utility company and Landlord regarding Contractors' responsibilities for:
a) Primary conduit and wiring
b) Secondary conduit and wiring
c) Connections to the CT and meter
d) Other utility and site specific requirements (such as temporary service)

6) Telephone - New telephone service including conduit and 25 pair telephone cable from source to telephone backboard location.

GENERAL SYMBOLS & ABBREVIATIONS

Identifier	Description
①	Keynote Symbol
←①	Keynote With Leader
②③	Multiple Keynotes Applying To The Same Item
01 / P2.1	Detail Identifier — Detail # 01, Drawing # P2.1 (Dwg Detail Is Located On)
01 / P2.1	Section Identifier — Section # 01, Drawing # P2.1 (Dwg Detail Is Located On)
01 / P2.1	Elevation Identifier — Elevation # 01, Drawing # P2.1 (Dwg Detail Is Located On)
AFF	Above Finished Floor
AFG	Above Finished Grade
BFG	Below Finished Grade
BLDG	Building
CLG	Ceiling
CONTR	Contractor
DN	Down
DWG(S)	Drawing(s)
EC	Electric Contractor
EM	Emergency
EQUIP	Equipment
ETR	Existing To Remain
EWC	Electric Water Cooler
EX	Existing
FLA	Full Load Amps
FS	Flow Switch
GC	General Contractor
GWB	Gypsum Wall Board
HP	Horsepower
MC	Mechanical Contractor
MCA	Minimum Circuit Amps
MFR	Manufacturer
MH	Mounting Height
MOD	Motor Operated Damper
NIC	Not In Contract
NTS	Not To Scale
OC	On Center
PC	Plumbing Contractor
PSI	Pounds Per Square Inch
PVC	Polyvinyl Chloride
RPM	Revolutions Per Minute
SDD	Duct Smoke Detector
SQ. FT.	Square Feet
TYP	Typical



MEP Engineer of Record
Randall A. Nelson, P.E.
14817 West 95th Street
Lenexa, Kansas 66215
Phone 913 322 5150

PETCO ANIMAL SUPPLIES STORES, INC.
PETCO "CARY, NC"
213 CROSSROADS BOULEVARD
CARY, NC 27518

PETCO™
9125 REHCO ROAD
SAN DIEGO, CALIFORNIA 92121

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:
PLUMBING, MECHANICAL & ELECTRICAL GENERAL INFORMATION

PME1.1