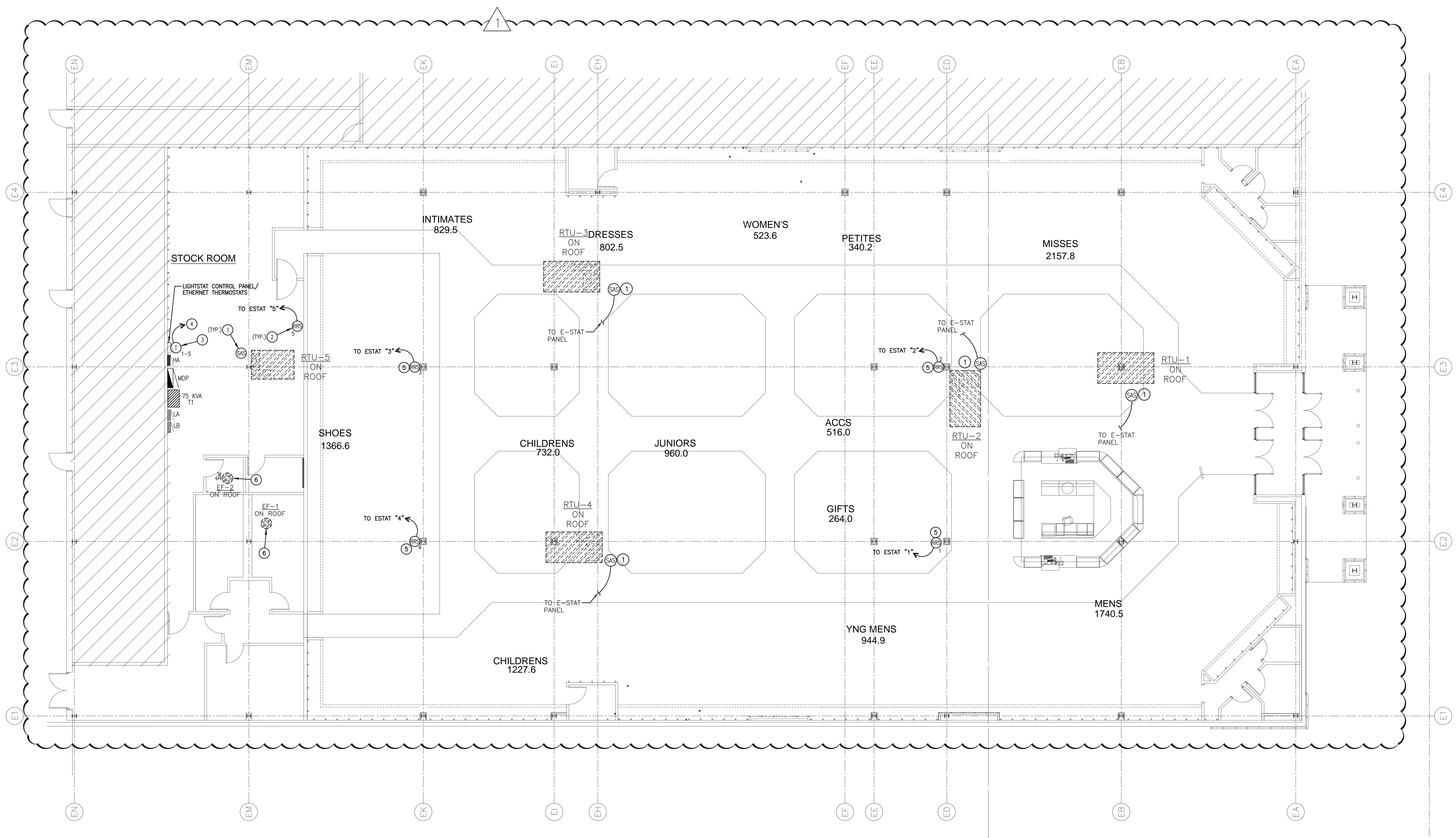


DATE	1/11/2015	PROJECT NO.	8-12-05	DRAWN BY	AEP
------	-----------	-------------	---------	----------	-----

ENERGY MANAGEMENT
 SYSTEM CONTROL PLAN
 - HVAC EQUIPMENT &
 NOTES
EM1.1



1 EMS CONTROL PLAN - HVAC EQUIPMENT
 SCALE: 1/8" = 1'-0"

- EMS HVAC CONTROL PLAN KEYED NOTES**
- DUCT-MOUNTED AIR TEMPERATURE SENSOR IN SUPPLY AIR DUCTWORK FURNISHED BY DIVISION 16 AND INSTALLED BY DIVISION 15. MOUNT ON TOP OR SIDES OF DUCT. DO NOT MOUNT ON BOTTOM OF DUCT TO AVOID MOISTURE CONTAMINATION. USE #18 2-CONDUCTORS, UN-SHIELDED CABLE AND LABEL THE END AT THE E-STAT CONTROL CABINET FOR EACH RTU UNIT. THIS CABLE WITH CONDUIT SYSTEM FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. CONNECTION TO SENSOR BY DIVISION 15. CHECK TO SEE IF PLENUM RATED CABLES ARE REQUIRED. COORDINATE WITH DIVISION 15 THE INSTALLATION OF DUCT-MOUNTED AIR TEMPERATURE SENSOR.
 - REMOTE ROOM/ZONE SENSOR AT LOCATION AS SHOWN FURNISHED BY DIVISION 16 AND INSTALLED BY DIVISION 15. USE #18 2- CONDUCTORS, UN-SHIELDED CABLE AND LABEL THE END AT THE E-STAT CONTROL CABINET FOR EACH RTU UNIT. THIS CABLE IS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. CONNECTION TO SENSOR BY DIVISION 15. CHECK TO SEE IF PLENUM RATED CABLES ARE REQUIRED. COORDINATE FINAL LOCATION WITH TENANT PRIOR TO INSTALLATION.
 - FURNISH FACTORY PRE-MOUNTED ESTAT CABINET (MODEL EPC-L-S-5) BY DIVISION 16 AS MANUFACTURED BY LIGHTSTAT, INC. CONNECT TO CIRCUIT LB-11 AND NETWORK HUB. CONNECT TO EACH RTU UNIT WITH #18 AWG CABLES FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. USE #18 2-CONDUCTORS, UN-SHIELDED CABLE AND LABEL THE END AT THE RTU UNIT CONTROL CABINET FOR EACH RTU UNIT. INSTALL (1)-1" EMPTY CONDUIT WITH PULL STRING FOR NETWORK FROM ESTAT CABINET TO TELEPHONE BOARD IN EQUIPMENT ROOM.
 - CONNECT RTU UNIT TO E-STAT PRE-MOUNTED ON CABINET WITH #18 9-CONDUCTOR, UN-SHIELDED CABLE AND LABEL THE END AT THE E-STAT CONTROL CABINET. THE E-STAT REQUIRES BOTH A POWER "R" WIRE AND A "COMMON" WIRE FROM RTU UNIT 24 VAC CONTROL TRANSFORMER. THIS CABLE IS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 - MOUNT REMOTE SENSOR ON BACKSIDE OF COLUMN, FACING AWAY FROM ENTRANCE AS INDICATED. USE #18 2- CONDUCTOR, UN-SHIELDED CABLE AND LABEL THE END AT THE E-STAT CONTROL CABINET FOR EACH HVAC UNIT. THIS CABLE IS PROVIDED BY THE CONTRACTOR. CHECK TO SEE IF PLENUM RATED CABLES ARE REQUIRED. COORDINATE FINAL INSTALLATION WITH TENANT. RE: EM2.1 FOR ADDITIONAL INFORMATION.
 - EXHAUST FAN SHALL BE CONTROLLED VIA CONTACTOR IN LIGHTSTAT CONTROL PANEL.

- GENERAL NOTES:**
- PLANS APPLICABLE TO NEW HVAC SYSTEMS.
 - RE: ME1.1 FOR PLAN SPECIFICATIONS AND PROTOTYPICAL LIGHTSTAT CONTROL SCHEMATIC.
 - COORDINATE MECHANICAL INSTALLATIONS THAT CONFLICT WITH NEW ARCHITECTURAL INSTALLATIONS. ANY NECESSARY RELOCATION SHALL NOT COMPROMISE THE DESIGN PARAMETERS INDICATED.
 - DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLAN FOR EXACT LOCATION OF DOORS, WINDOWS, LIGHTS, ETC.

CONTACT TONY BREGONZIO AT (800) 292-2444 EXT. 278 AND MELISSA HUBBARD AT (800) 292-2444 EXT. 224 OF LIGHTSTAT, INC. FOR EXACT REQUIREMENTS AND QUOTATION OF LIGHTSTAT CONTROL PANEL (ALC-6-32-BEE), ETHERNET THERMOSTATS/ACCESSORY KIT (AJ/E-KIT-PM-RT), SMALL ESTAT CABINET (EPC-L-S-5), ALL SENSORS, OPEN/CLOSE PUSH BUTTON, 32 POLES CONTACTORS, SECURITY ALARM INTERFACE, COLOR-CODED PLENUM RATED CABLES, WALL PLATES, CAT 5 CABLE AND RELATED HARDWARE.