



1 HVAC MEZZANINE PLAN  
SCALE: 3/32" = 1'-0"



**GENERAL NOTES**

- A. REFER TO HEATING, VENTILATING & AIR CONDITIONING SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.
- B. ALL DIFFUSERS AND CEILING GRILLES SHALL BE COORDINATED WITH LAY-IN CEILING GRID AND PROVIDED BY MECHANICAL CONTRACTOR. SEE SCHEDULE SHEET M.1.
- C. PROVIDE BALANCING DAMPERS FOR EACH DIFFUSER, REGISTER AND GRILLE AT POINTS ON SUPPLY, RETURN AND EXHAUST SYSTEMS WHERE BRANCHES LEAD OFF FROM LARGER DUCTS OR IN DIFFUSERS AS REQUIRED FOR AIR BALANCING. INSTALL AT A MINIMUM OF TWO DUCT WIDTHS FROM BRANCH TAKEOFF WHERE PRACTICAL. REFER TO HD-25 ON SHEET M.3.
- D. NO PROVISION HAS BEEN MADE FOR RETURN AIR FROM THE BACK ROOM AS IT HAS BEEN OUR EXPERIENCE THAT ACCEPTABLE CONSTRUCTION TOLERANCES IN THIS AREA RESULTS IN LEAKAGE IN AN AMOUNT EQUAL TO THAT SUPPLIED.
- E. ALL NEW EXHAUST FANS AND RTUs SPECIFIED ARE INCLUDED IN KROGER'S DIRECT BUY PROGRAM, AND SHALL BE FURNISHED BY KROGER AND INSTALLED BY HVAC CONTRACTOR, UNLESS OTHERWISE NOTED.
- F. ALL HVAC DUCT SMOKE DETECTORS ARE SHOWN ON ELECTRICAL SYSTEMS PLAN.
- G. REFER TO RTU SCHEDULE SHEET M.1 FOR ROOFTOP UNIT INFORMATION. PROVIDE AND INSTALL BACKDRAFT DAMPERS FOR NON-KITCHEN EXHAUST FANS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE STORE'S MECHANICAL DESIGN SHALL BE ELIGIBLE TO EARN ENERGY STAR CERTIFICATION.
- H. SUPPLY AND RETURN DUCTWORK FROM ROOFTOP UNITS TO BE INTERNALLY INSULATED A MINIMUM OF TEN FEET FOR SOUND ATTENUATION. SEE DETAIL HSD-3, SHEET M.1.
- I. REFER TO ROOFTOP CURB DETAILS, SHEET M.1 FOR ROOFTOP UNIT CURB INSTALLATION.
- J. PROVIDE TURNING VANES IN ALL RECTANGULAR MITERED ELBOWS. ONLY ITEMS REQUIRED FOR THE OPERATION OF THE ELEVATOR ARE ALLOWED TO BE IN OR PASS THROUGH THE ELEVATOR EQUIPMENT ROOM.
- K. ALL DIFFUSERS ARE 4-WAY UNLESS OTHERWISE INDICATED. REFER TO HD-4 ON SHEET M.3.
- L. RUNOUTS TO CEILING DIFFUSERS ARE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
- M. HVAC SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 101 SECTION 9.2.

**KEYED NOTES**

- 3 10X14 DUCT UP TO OPENING THRU ROOF CAPPED WITH CURB AND KROGER FURNISHED EXHAUST FAN EF-R2.
- 4 10X12 DUCT UP TO OPENING THRU ROOF CAPPED WITH CURB AND KROGER FURNISHED EXHAUST FAN EF-R4.
- 6 12X12 DUCT UP TO OPENING THRU ROOF CAPPED WITH CURB AND KROGER FURNISHED EXHAUST FAN EF-ER. CONTRACTOR TO PROVIDE REVERSE ACTING THERMOSTAT FOR FAN. FAN TO ENERGIZE WHEN ROOM REACHES 80 DEG F.
- 12 TEMPERATURE SENSOR FOR ROOFTOP UNIT FURNISHED BY BUILDING CONTROL PROVIDER. MOUNT SENSOR AT 5'-0" AFF. REFER TO EM SERIES OF DRAWINGS FOR ADDITIONAL INFORMATION.
- 23 KROGER FURNISHED SPLIT SYSTEM PROVIDED WITH LOW AMBIENT KIT AND WIND BAFFLES. MOUNT ON WALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO HVAC SPLIT SYSTEM DIAGRAM DETAIL HSD-11 ON SHEET M.1. ROUTE REFRIGERANT LINES THRU ROOF TO CONDENSING UNIT PER MANUFACTURER'S GUIDELINES. ROUTE 3/4" INSULATED CONDENSATE TO HUB DRAIN IN AREA. REFER TO REFRIGERANT PIPING DETAIL HD-16 ON SHEET M.3.1. COORDINATE ORDERING OF REFRIGERANT LINESET WITH OWNER'S PROJECT MANAGER.
- 32 ROOFTOP UNIT FURNISHED BY KROGER AND INSTALLED BY MECHANICAL CONTRACTOR. REFER TO SCHEDULE SHEET M.1. BALANCE TO SCHEDULED CFM. REFER TO MOUNTING DETAILS, SHEET M.1.
- 34 12X12 DUCT UP TO OPENING THRU ROOF CAPPED WITH CURB AND KROGER FURNISHED EXHAUST FAN EF-P. CONTRACTOR TO PROVIDE REVERSE ACTING THERMOSTAT FOR FAN. FAN TO ENERGIZE WHEN ROOM REACHES 80 DEG F.
- 47 TEMPERATURE/HUMIDITY SENSOR TO BE WIRED IN PARALLEL WITH KTV CONFERENCE ROOM TEMPERATURE SENSOR SO THAT HOTTEST READING CONTROLS COOLING (ON COOLING MODE) AND COLDEST READING CONTROLS HEATING (ON HEATING MODE). REFER TO EMS DRAWINGS FOR MORE INFORMATION.
- 57 REFER TO TRANSFER GRILLE DETAIL HD-11 ON SHEET M.3.1 (TYP).

CONSULTANTS  
 creating extraordinary places  
 www.cr-architects.com  
 800.469.4949

architect + design

CONSULTANTS

**KOHRS, LONNEMANN, HEIL ENGINEERS, PSC**  
 MECHANICAL/ELECTRICAL ENGINEERS  
 1338 Alameda Plaza, Suite 11 | Fort Thomas, KY 41075 | 513.446.8050  
 101 Brown Street | Dayton, OH 45402 | 937.233.9700  
 2 Hubbard Road, Suite 200 | Columbus, OH 43215 | 614.221.0100

OWNER

| ISSUE/REVISION | DATE                |
|----------------|---------------------|
| 08/02/2014     | 90% PROGRESS REVIEW |
| 08/26/2014     | BID/PERMIT ISSUE    |

|   |            |            |
|---|------------|------------|
| 1 | 10/02/2014 | ADDENDUM 2 |
|---|------------|------------|

PROJECT TITLE  
**KROGER STORE SW534**

SEC Mercantile Dr. & Arline Dr.  
 Bossier City, LA

COMMISSION NO. 514038  
 ISSUE DATE 08/26/14

SHEET TITLE  
**HVAC MEZZANINE PLAN**

SHEET NO.  
**M1.1c**  
 © 2014 Cole+Russell Architects, Inc.

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF COLE+RUSSELL ARCHITECTS, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT WAS PREPARED WITHOUT THE EXPLICIT CONSENT OF COLE+RUSSELL ARCHITECTS, INC.  
 10/29/14 11:14:22 AM