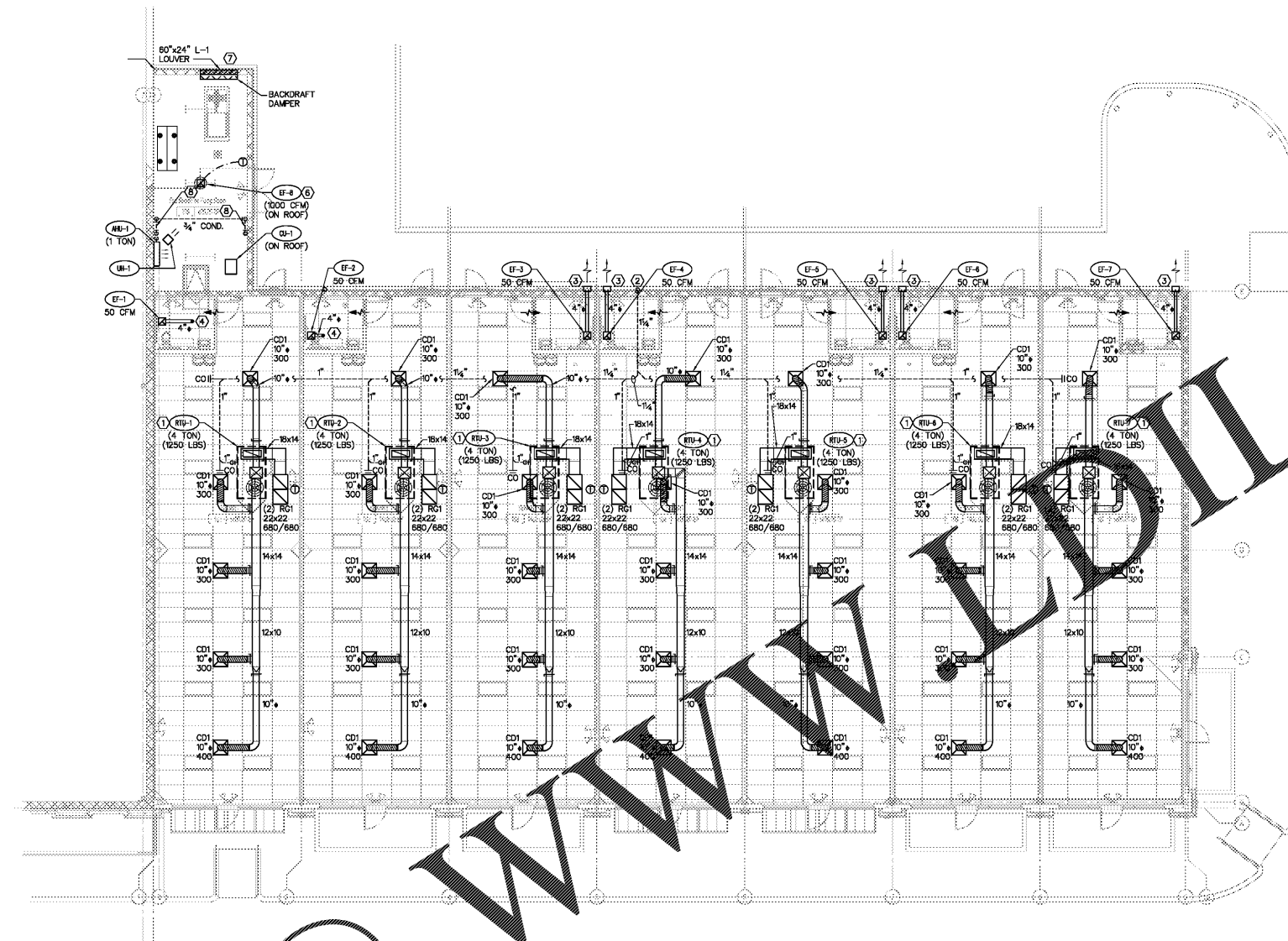


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Order Plans @



MECHANICAL PLAN
SCALE: 1/8"=1'-0"

- MECHANICAL GENERAL NOTES**
1. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2015 SOUTH CAROLINA BUILDING CODE, NATIONAL ELECTRICAL CODE, 2009 INTERNATIONAL ENERGY CODE, ALL NFPA REQUIREMENTS, AND ALL LOCAL CODES.
 2. ALL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. CONTRACTOR SHALL BE REQUIRED TO FURNISH, INSTALL AND CONNECT WITH APPROPRIATE SERVICES AND ITEMS SHOWN ON THE DRAWING AT NO ADDITIONAL COST TO THE OWNER.
 3. FURNISH SIX (6) COPIES OF SHOP DRAWINGS OF EQUIPMENT OR FIXTURES FOR APPROVAL PRIOR TO PURCHASING.
PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL HAVE STUDIED AND COMPARED THE CONTRACT DOCUMENTS WITH EXISTING/PROPOSED CONDITIONS AND NOT LATER THAN TEN (10) DAYS PRIOR TO THE BID OPENING SHALL REPORT TO THE ENGINEER ANY ERROR, INCONSISTENCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS.
 4. TEST AND BALANCE REPORT SHALL BE PROVIDED BY THE MECHANICAL SUBCONTRACTOR WITH A WRITTEN REPORT PROVIDED TO THE ARCHITECT AND ENGINEER AT THE COMPLETION OF THE PROJECT. AIRSIDE BALANCE AND CAPACITY CHECKS SHALL BE RUN ON ALL SYSTEMS. THE WRITTEN REPORT SHALL BE ON FORMS RECOMMENDED BY AABC.
 5. COPIES OF THE MECHANICAL SUBCONTRACTOR'S FIRST YEAR GUARANTEE FOR THE INSTALLATION SHALL BE PROVIDED TO THE OWNER. NOTATION SHALL BE INCLUDED TO SHOW THE EXPIRATION OF THE FIRST YEAR PARTS AND LABOR GUARANTEE AND OF THE EXTENDED FOUR (4) YEAR COMPRESSOR WARRANTY.
 6. DEVIATION FROM MATERIALS, METHODS OR PROCEDURES SET FORTH HEREIN MUST BE APPROVED BY THE ENGINEER, IN WRITING, PRIOR TO BID OR COMMENCEMENT OF WORK.
 7. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL COST INCURRED BY ANY TRADE DUE TO THE SUBSTITUTION OF MECHANICAL EQUIPMENT. ANY CHANGES SHALL BE COORDINATED WITH THE TRADES INVOLVED.

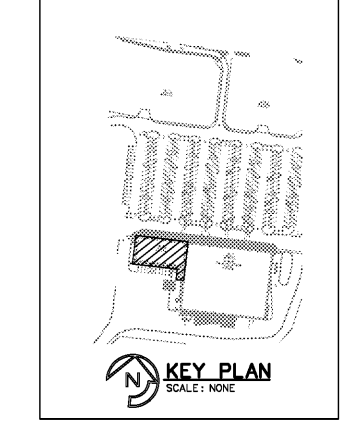
- MECHANICAL EQUIPMENT**
1. AIR CONDITIONING EQUIPMENT SHALL BE FACTORY PACKAGED STRAIGHT COOL WITH GAS HEAT.
 2. ALL AIR CONDITIONING UNITS SHALL INCLUDE A ONE (1) YEAR WARRANTY AND AN EXTENDED FOUR (4) YEAR COMPRESSOR WARRANTY.
 3. FILTERS SHALL BE PROVIDED IN THE UNITS. THE FACTORY FILTER SHALL BE USED DURING CONSTRUCTION AND A NEW SET OF REPLACABLE MEDIA, IN METAL FILTER FRAMES, SHALL BE PROVIDED JUST PRIOR TO TEST AND BALANCE.
 4. ALL UNITS SHALL BE PROVIDED WITH A FACTORY CURB. CURBS SHALL BE SET LEVEL ON TOP, WITH LEVEL STRUCTURAL STEEL SUPPORT FRAMES PROVIDED BY THE STRUCTURAL STEEL SUBCONTRACTOR.
 5. ELECTRICAL POWER AND CONTROL CONDUITS SHALL RISE UP INSIDE THE CURB OF THE ROOF TOP UNIT.
 6. ROUTE CONDENSATE PIPING AS SHOWN ON PLANS.
- CONDENSATE PIPING**
1. EXTERIOR CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC WITH UV INHIBITOR RATED FOR EXTERIOR USE.
- DUCTWORK**
1. SUPPLY AND RETURN DUCTWORK SHALL BE TYPE 800 FIBERGLASS EQUAL TO JOINS-MANNVILLE "MICRO-AIRE". DUCT SHALL BE 1-1/2" THICK WITH AN INSULATION VALUE EQUAL TO R-6. SEAL ALL JOINTS WITH MASTIC.
 2. EXHAUST AIR DUCTWORK SHALL BE GALVANIZED SHEET STEEL WITH ALL JOINTS SEALED WITH MASTIC. ROUND EXHAUST DUCTWORK SHALL BE ALUMINUM "THERMOFIB" OR SINGLE WALL ROUND SHEET METAL. EXHAUST AIR DUCTS DO NOT NEED TO BE INSULATED UNLESS REQUIRED BY LOCAL ORDINANCE.
 3. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA REQUIREMENTS.

4. ALL DUCTS SHOWN ARE INSIDE CLEAR DIMENSIONS.
 5. SIZING OF DUCT SHALL BE BASED ON 0.05"/100 FT. EQUAL FRICTION FOR SUPPLY DUCTWORK AND A MAXIMUM 800 FPM VELOCITY FOR THE RETURN DUCTWORK.
 6. FLEXIBLE DUCT SHALL NOT BE ALLOWED EXCEPT FOR FINAL DIFFUSER RUNOUTS.
 7. HOLD THE BOTTOM OF THE SUPPLY AIR DUCT AT A MAXIMUM OF 24" ABOVE HUNG CEILING FOR ACCESSIBILITY PURPOSES.
 8. PROVIDE FLEXIBLE CONNECTION FROM EACH DUCTWORK CONNECTION TO AIR HANDLERS AND FANS.
 9. ALL BRANCH CONNECTIONS SHALL HAVE A MANUAL VOLUME DAMPER INSTALLED AT MAIN TRUNK FOR BALANCING PURPOSES.
- CONTROLS**
1. THERMOSTATS SHALL BE BY UNIT MANUFACTURER. ALL THERMOSTATS SHALL HAVE STAGES OF COOLING AND HEATING TO MATCH SPECIFIED UNIT AND SHALL BE 7-DAY PROGRAMMABLE.
 2. LOCATE ALL THERMOSTATS 4'-0" A.F.F. UNLESS OTHERWISE NOTED. EXACT LOCATION OF ALL THERMOSTATS SHALL BE APPROVED BY THE ARCHITECT AND THE ENGINEER.
 3. EXHAUST FANS SHALL BE CONTROLLED AS NOTED ON THE EXHAUST FAN SCHEDULE.

- KEYED NOTES:**
1. PROVIDE AND INSTALL NEW PACKAGED ROOFTOP UNIT. COORDINATE LOCATION OF UNIT WITH STRUCTURAL DRAWINGS.
 2. RTU CONDENSATE TO BE PIPED TO ROOF GUTTERS (COORDINATE WITH ARCHITECTURAL DRAWINGS). PROVIDE PIPE SUPPORT ON PROTECTION PADS ADHERED TO ROOF MEMBRANE (TYP.). FINAL TERMINATION SHALL BE SITE STORM SEWER SYSTEM.
 3. 4" STEEL DUCT THROUGH WALL TO SCREENED WALL CAP. INSTALL WALL CAP 10'-0" (MIN.) FROM DOOR.
 4. 4" STEEL EXHAUST DUCT THROUGH ROOF TO SCREENED ROOF CAP.
 5. PROVIDE AND INSTALL BACK DRAFT DAMPER EQUAL IN SIZE TO L-1.
 6. EXTEND EXHAUST DUCTWORK, FULL SIZE OPENING, DOWN TO 24" BELOW DECK AND COVER OPENING WITH HARDWARE CLOTH.
 7. LOCATE LOUVER 12" ABOVE FLOOR.
 8. ROUTE CONDENSATE TIGHT TO WALL, DROP TO 6" A.F.F. SPILL TO HUB DRAIN, COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION.

MECHANICAL LEGEND

SUPPLY DIFFUSER		VOLUME DAMPER	
RETURN GRILLE		CONDENSATE PIPING (COND)	
EXHAUST FAN		THERMOSTAT	
FLEXIBLE DUCT		T DOOR UNDERCUT FOR MAKE-UP AIR	
RIGID DUCT		DIRECTION OF AIRFLOW	
SMOKE DETECTOR			



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PROJECT NAME
Publix/Retail @ Lake Crossing
South Lake Drive & Platt Springs Road
Levinston, South Carolina

REVISION

No.	Description	Date
A	100% Final Submission	03/07/17
B	100% Public Review	06/17/17
C	Final for Construction	06/13/17

DATE 03-17-17
DRAWN [Signature]
CHECKED [Signature]
DATE [Signature]

Job Number: 51207
Colwill Engineering
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MECHANICAL PLAN