

CONSULTANTS:



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DARREL R. CASE

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 DATE ISSUED _____
 REG. NO. 6140

TORRID

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 SPACE #B-115
 NEW MALL A

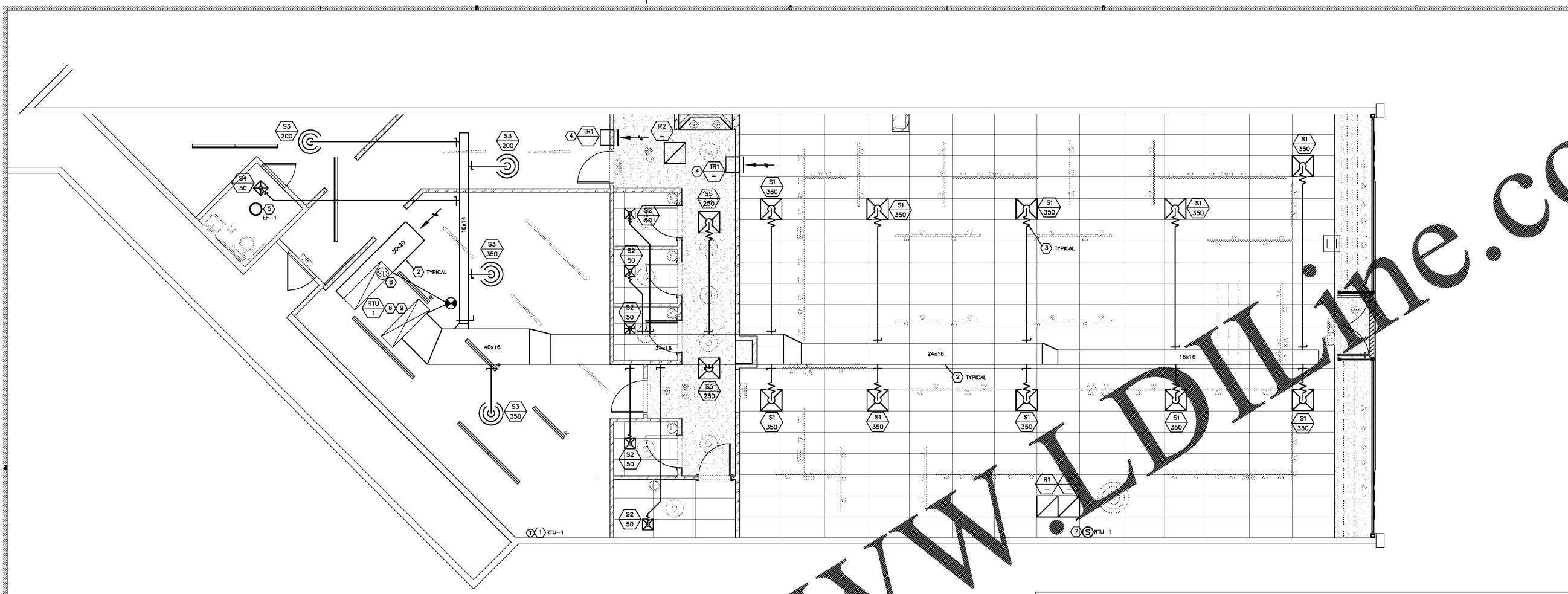
SHEET TITLE:
**MECHANICAL PLAN
 AND SCHEDULES**

REVISIONS:

NO.	DATE	BY:

PROJECT NO: 17127.044
 DRAWN BY: SZV

M1



1 MECHANICAL PLAN

- MECHANICAL KEYED NOTES**
- PROVIDE 7-DAY PROGRAMMABLE THERMOSTATS AND RELATED WIRING TO CONTROL ROOF TOP UNIT. CONNECT TO REMOTE TEMPERATURE SENSORS. MOUNT 48" A.F.F. NEAR MANAGER'S DESK. PROVIDE LOCKABLE COVER. VERIFY COMPLIANCE WITH MALL SYSTEM.
 - FURNISH AND INSTALL GALVANIZED STEEL DUCTWORK, SIZES AS NOTED ON DRAWINGS. DUCTWORK SIZES ARE SHEET METAL SIZES. DUCTWORK TO BE EXTERNALLY WRAPPED WITH 1-1/2" INSULATION.
 - MAXIMUM FIVE (5) FEET OF FLEXIBLE DUCT. ONLY ONE 90° ELBOW ALLOWED IN FLEXIBLE DUCTWORK.
 - VERIFY EXISTING OPEN PLENUM RETURN IS PERMITTED FOR MALL. PROVIDE TRANSFER AIR GRILLES AS REQUIRED. VERIFY ALL REQUIREMENTS WITH LANDLORD PRIOR TO INSTALLATION.
 - EXISTING EXHAUST FAN/LIGHT COMBO TO REMAIN. CLEAN FIXTURE AND MAKE FULLY OPERATIONAL. RE-BALANCE TO 75 CFM.
 - EXISTING ROOFTOP UNIT (RTU-1) TO REMAIN. VERIFY EXACT LOCATION, CAPACITY AND OPERATION IN FIELD. PROVIDE NEW IF REQUIRED.
 - PROVIDE THERMOSTAT COMPATIBLE REMOTE SENSOR AND ALL RELATED CONTROL WIRING, AND CONNECT TO RTU THERMOSTAT. MOUNT ON CEILING. CONTRACTOR TO VERIFY SENSOR COMPATIBILITY WITH HORIZONTAL MOUNTING PRIOR TO ORDERING.
 - VERIFY EXISTING 120V DUCT MOUNTED SMOKE DETECTOR. SMOKE DETECTOR SHALL BE INTERLOCKED TO DE-ENERGIZE UNIT UPON DETECTION OF SMOKE. POWER WIRING BY ELECTRICAL CONTRACTOR. COORDINATE WITH ELECTRICAL DRAWINGS/CONTRACTOR.
 - EXISTING CONDENSATE LINE FROM ROOFTOP UNIT TO REMAIN. VERIFY PROPER OPERATION IN FIELD. PROVIDE NEW IF REQUIRED.

MECHANICAL SYMBOLS LEGEND

(T)	THERMOSTAT
-W-	FLEXIBLE DUCT
∩	VOLUME DAMPER
FD	FIRE DAMPER
⊗	CEILING SUPPLY AIR DIFFUSER
⊗	CEILING RETURN AIR GRILLE
—	SIDEWALL AIR DIFFUSER OR GRILLE
—	NEW DUCTWORK
—	EXISTING DUCTWORK
—	CONDENSATE DRAIN
G	GAS PIPING
—	PIPE TURNING DOWN
—	PIPE TURNING UP
⊕	BALL VALVE
⊕	GATE VALVE
⊕	CONNECTION OF NEW EXISTING
⊕	COCK VALVE
⊕	COCK
⊕	UNION
⊕	PRESSURE GAUGE
—	STRAP
—	ABOVE FINISHED FLOOR
S1	DEVICE #
100	CFM
S	SUPPLY
R	RETURN
E	EXHAUST

ROOFTOP UNIT SCHEDULE

MARK	MFR	MODEL NO.	TONS	CFM	CFM	HP	COOLING HIGH TIL/SEN	ELECTRIC HEATING (KW)	MCA/MOCP	V/PH	REMARKS
RTU-1	TRANE	EXISTING	15.0	5400	800	0.7	184.0/130.0	36.0	36.0/50.0	480/3	1,2,3

- EXISTING UNIT TO REMAIN. CLEAN EVAPORATOR AND CONDENSER COILS. CHECK REFRIGERANT CHARGE. ADD REFRIGERANT, AS REQUIRED. ADJUST AND/OR REPLACE BELTS, AS REQUIRED. REPLACE ALL FILTERS. EXISTING PIPING AND VALVES TO REMAIN. VERIFY VOLTAGE AND PROPER OPERATION IN FIELD. COORDINATE EXACT LOCATION IN FIELD.
- HVAC CONTRACTOR SHALL FIELD VERIFY EXISTING ECONOMIZER, CONTROLS, VALVES, AND CONNECTIONS. PROVIDE ADDITIONAL CONTROLS AND ACCESSORIES, AS REQUIRED TO MEET DESIGN INTENT.
- FIELD VERIFY ELECTRICAL REQUIREMENTS AND VOLTAGES WITH ELECTRICAL CONTRACTOR.
- RE-BALANCE OUT TO SCHEDULED CFM.

AIR DEVICE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	MATL.	NECK SIZE	FRAME TYPE	PANEL SIZE	REMARKS
S1	TITUS	TMS	ST	SCHED. LAY-IN	24"x24"	1,2,4	
S2	TITUS	TMS	ST	6"	LAY-IN	12"x12"	1,2,4
S3	TITUS	TMR	ST	12"	FLANGED	22"	1,2
S4	TITUS	TMS	ST	6"	FLANGED	12"x12"	1,2
S5	TITUS	TMS	ST	SCHED. FLANGED	24"x24"	1,2,4	
R1	TITUS	PAR	ST	SCHED. LAY-IN	24"x24"	1,2,4	
R2	TITUS	PAR	ST	SCHED. FLANGED	24"x24"	1,2,4	
TR1	TITUS	350R1S	ST	SCHED. FLANGED	24"x24"	3	

- AIR DEVICE RUN-OUT SHALL BE SAME SIZE AS DIFFUSER NECK.
- WALL MOUNTED BLADE VOLUME DAMPER.
- WALL MOUNTED GRILLE.
- ALL GRILLES, REGISTERS AND DIFFUSERS IN SALES AREA SHALL BE PAINTED TO MATCH CEILING COLOR. VERIFY EXACT COLOR WITH ARCHITECT.

DIFFUSER NECK SIZE SCHEDULE

NECK SIZE	CFM
6"	0 - 140
8"	150 - 250
10"	260 - 400
12"	410 - 600
14"	610 - 1000
16"	1010 - 1400
18"	1410 - 1900

GENERAL NOTES

- AIR DEVICE NECK SIZE SHALL BE THE SAME AS RUNOUT SIZE.
- RECTANGULAR DUCT SIZES OF EQUIVALENT FREE AREA MAY BE SUBSTITUTED FOR ROUND DUCT.
- RUNOUTS MAY BE RIGID OR FLEX DUCT PER SPECIFICATIONS.

MECHANICAL SPECIFICATIONS

- THIS CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL FOR A COMPLETE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM, AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. FIELD VERIFY ALL CONDITIONS BEFORE SUBMITTING A BID.
- HVAC WORK SHALL COMPLY WITH THE ADOPTED BUILDING CODES, AND GOVERNING STATE AND LOCAL CODES. ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LANDLORD'S TENANT CRITERIA AND THE TENANT'S LEASE AGREEMENT. CONTRACTORS SHALL OBTAIN A COPY AND COMPLETELY FAMILIARIZE THEMSELVES WITH THESE DOCUMENTS PRIOR TO SUBMITTING BID.
- CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PROVIDE A CERTIFICATE OF INSPECTION UPON COMPLETION.
- ELECTRONIC COPIES OF ALL SHOP DRAWINGS SHALL BE SUBMITTED BY THIS CONTRACTOR. THESE DRAWINGS SHALL BE CLEARLY MARKED INDICATING WHICH ITEMS ARE TO BE SUPPLIED AND SHALL STATE CAPACITIES, SIZES, REQUIRED INSPECTION LABELS AND GENERAL DESCRIPTION OF ALL EQUIPMENT AND FIXTURES.
- THIS CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT AND MATERIAL INSTALLED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF OPENING OF THE STORE. CONTRACTOR SHALL REPAIR OR REPLACE WITHOUT COST TO THE OWNER ANY EQUIPMENT WHICH IS DEFECTIVE, OR IMPROPERLY INSTALLED. IN ADDITION, THIS CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDING AND ITS CONTENTS OR OTHER EQUIPMENT CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIALS INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS.
- FABRICATE AND INSTALL GALVANIZED STEEL METAL DUCTWORK FOR VELOCITIES LESS THAN 2000 FEET PER MINUTE AND STATIC PRESSURES OF LESS THAN 2" WATER GAUGE IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA'S LOW VELOCITY DUCT CONSTRUCTION MANUAL. ALL RECTANGULAR ELBOWS IN SUPPLY AND RETURN DUCTS SHALL BE PROVIDED WITH TURNING VANES. DUCTWORK SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED IN ACCORDANCE WITH THE CURRENTLY ENFORCED MECHANICAL AND ENERGY CODE. FIBERGLASS DUCT BOARD IS NOT ACCEPTABLE.
- TEST AND ADJUST ALL AIR HANDLING EQUIPMENT TO PROVIDE THE CFM WITHIN 10% OF THE CFM SHOWN ON THE DRAWINGS. PROVIDE ALL CHANGES REQUIRED TO OBTAIN CFM SHOWN ON THE DRAWINGS. TESTING AND BALANCING SHALL BE BY AN OWNER APPROVED INDEPENDENT TEST AND BALANCING AGENCY CERTIFIED BY AABC OR NEBB IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE TESTING AND BALANCING MANUAL, AS PUBLISHED BY SMACNA. THE ARCHITECT SHALL BE PROVIDED WITH THREE CERTIFIED COPIES OF THE AIR BALANCE REPORT BEFORE FINAL PAYMENT WILL BE MADE. PROVIDE THE LANDLORD WITH TWO CERTIFIED COPIES OF THE AIR BALANCE REPORT.
- FURNISH AND INSTALL ALL MECHANICAL EQUIPMENT AND OR AIR DEVICES AS SCHEDULED ON THE DRAWINGS. BIDS SHALL BE BASED ON THE EQUIPMENT SPECIFIED AND NO SUBSTITUTIONS WILL BE ACCEPTED.
- FURNISH AND INSTALL ALL SYSTEMS OF HVAC CONTROL, INCLUDING CONTROL WIRING, PROGRAMMING, ETC. TO PROVIDE A COMPLETE SYSTEM. ALL SYSTEMS SHALL BE INSTALLED BY THIS CONTRACTOR.
- PAY FOR ALL PERMITS AND INSPECTIONS AND PROVIDE CERTIFICATES OF INSPECTION.
- MECHANICAL CONTRACTOR SHALL COOPERATE WITH OTHER TRADES TO AVOID ALL CONFLICTS BETWEEN PIPING, DUCTWORK, STRUCTURAL, ELECTRICAL WORK, ETC.
- MECHANICAL CONTRACTOR SHALL VERIFY RATINGS OF ALL ASSEMBLIES WITH ARCHITECTURAL DRAWINGS. SEAL PIPE PENETRATIONS TO MATCH THE ASSEMBLY RATINGS. PROVIDE ALL SUPPLY AND RETURN AIR DUCTS PASSING THROUGH FIRE RATED ASSEMBLIES WITH APPROVED FIRE DAMPERS.
- DUCT SIZES SHOWN ARE NET INSIDE CLEAR DIMENSIONS.
- FLEXIBLE RUNOUTS TO AIR DEVICES SHALL BE NO MORE THAN 5'-0" IN LENGTH AND SHALL BE INSULATED.
- MANUAL DAMPERS SHALL BE PROVIDED AT ALL BRANCH TAPS FOR BALANCING.
- SEE ARCHITECTURAL DRAWINGS FOR FINISH SPECIFICATIONS.
- PROVIDE AND INSTALL ALL ADDITIONAL STEEL FOR ROOF STRUCTURE SUPPORT OF ALL EQUIPMENT ON ROOF. ALL ROOF WORK BY LANDLORD'S CONTRACTOR AT CONTRACTOR'S EXPENSE. ALL EQUIPMENT ON ROOF SHALL BE CURB OR RAIL MOUNTED AND FLASHED TO ROOF MEMBRANE.
- AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.

CONTRACTOR'S GENERAL NOTES

- DUCT/PIPING LAYOUT IS SCHEMATIC. EXACT LOCATION OF DUCT/PIPING AND EQUIPMENT SHALL BE COORDINATED WITH THE BUILDING STRUCTURE, EQUIPMENT, EXISTING CONDITIONS, ARCHITECTURAL DRAWINGS, AND OTHER TRADES PRIOR TO INSTALLATION. ANY CONTRACTOR INSTALLING WORK PRIOR TO COORDINATION SHALL RELOCATE HIS WORK AT HIS EXPENSE TO ALLOW PROPER INSTALLATION OF ANY AND ALL OTHER TRADES' WORK. THE CONTRACTORS SHALL VISIT THE JOB SITE AND VERIFY ALL EXISTING CONDITIONS RELATED TO THEIR WORK BEFORE BIDDING. ALL UNUSED EQUIPMENT, DUCTWORK, DIFFUSERS, ETC. IS TO BE REMOVED AND SHALL BE PART OF THIS CONTRACT. ALL DEMOLITION WORK MUST BE APPROVED IN WRITING BY LANDLORD'S REPRESENTATIVE PRIOR TO ANY WORK.
- THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.
- BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.
- THE SUBMISSION OF PROPOSALS SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTORS HAVE VISITED THE SITE. NO EXTRA PAYMENTS WILL BE ALLOWED THESE CONTRACTORS CLAIMS FOR EXTRA WORK MADE NECESSARY BY THEIR FAILURE TO VISIT THE SITE.
- EACH CONTRACTOR SHALL WARRANT THEIR WORK FOR 1 YEAR FROM THE OPENING DATE OF THE STORE.
- ALL CONTRACTORS SHALL COMPLETE THEIR WORK ACCORDING TO STATE AND OR LOCAL CODES.
- CONTRACTOR SHALL REVIEW ALL LANDLORD REQUIREMENTS AND INSTALL ALL MATERIALS AND EQUIPMENT AS DIRECTED BY THE LANDLORD'S REPRESENTATIVE AND AS REQUIRED BY THE LEASE DOCUMENTS. CONTRACTORS SHALL VERIFY THE REQUIREMENTS BEFORE SUBMITTING THEIR BID.
- COORDINATE ALL DISCREPANCIES BETWEEN DOCUMENTS AND FIELD CONDITIONS WITH THE TENANT. COORDINATE THE EXTENSION, MODIFICATION, FINAL CONNECTION AND TESTING OF ALL UTILITIES OR INTERFACED SYSTEMS WITH THE LANDLORD'S FIELD REPRESENTATIVE.
- NO COMPONENTS MAY BE ABANDONED IN PLACE. ALL COMPONENTS THAT ARE NOT REUSED MUST BE REMOVED.
- PRIOR TO BID, CONTRACTOR SHALL SUBMIT RFIs TO ARCHITECT FOR ALL ISSUES IN NEED OF CLARIFICATION. INTERPRETATION OF ARCHITECT WILL PREVAIL.
- VERIFY ALL DUCT CONNECTION SIZES TO FANS, COILS, AND EXISTING DUCTWORK.
- TENANT'S CONTRACTORS SHALL VERIFY WITH HVAC PLAN TO COORDINATE THE REQUIREMENT OF PLENUM RATED FIXTURES, PIPING, WIRING, ETC. FAILURE TO DO SO COULD RESULT IN THE REMOVAL AND REPLACEMENT OF THESE ITEMS AT NO ADDITIONAL COST TO THE TENANT. NO PVC PIPING ALLOWED IN PLENUM.
- ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR MAY, AT HIS OPTION REPLACE RECTANGULAR DUCTWORK SHOWN WITH ROUND SPIRAL DUCT OF EQUIVALENT CAPACITY.

2 MECHANICAL KEYED NOTES

3 MECHANICAL LEGEND AND SCHEDULES

4 GENERAL NOTES

Order Plans

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