

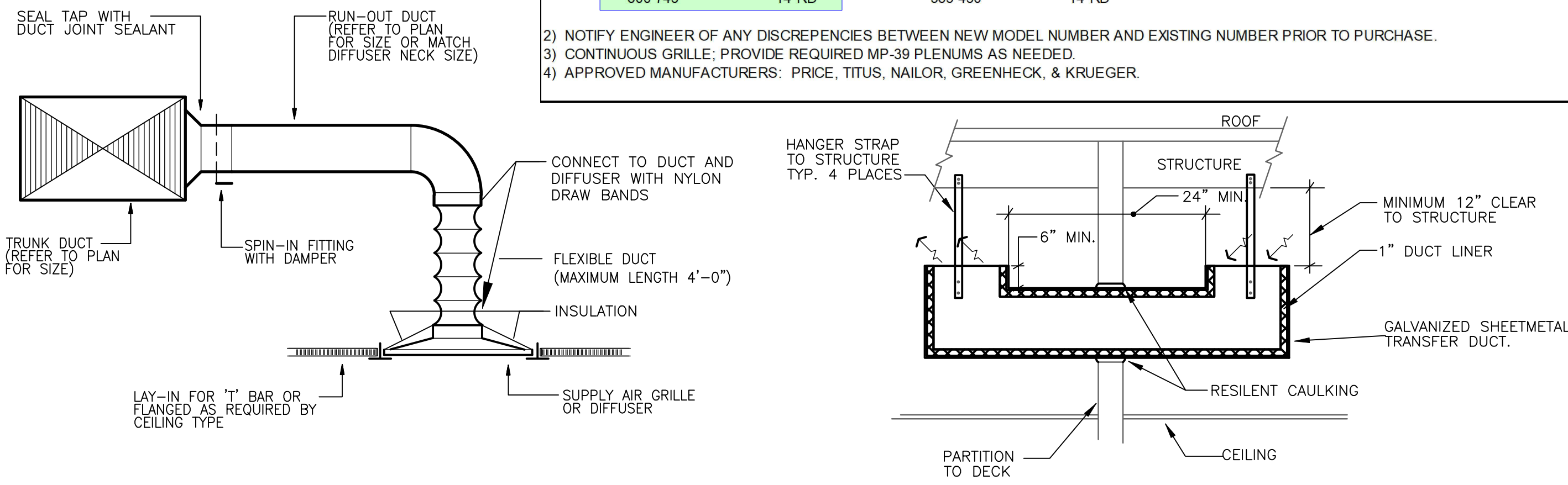
NOTE FOR PURCHASING OF DIFFUSERS. CONTRACTOR CAN PURCHASE BUILDING STOCK FROM LANDLORD. CONTACT BILLINGSLEY REPRESENTATIVE FOR AVAILABILITY.

GRILLES - REGISTERS - DIFFUSERS										
DESIG.	DUTY	TYPE	MOUNTING LOCATION	MATERIAL	VOLUME CONTROL	FINISH	AIR PATTERN CONTROL	METHOD OF SUPPORT	EQUAL TO MANUFACTURER AND MODEL NO.	REMARKS
A	SUPPLY	SQUARE PLAQUE	LAY-IN CLG	STEEL	NO	OFF WHITE	YES	T-BAR	TITUS OMNI	SEE NOTE 1,2
B	RETURN	PERFORATED	LAY-IN CLG	STEEL	NO	OFF WHITE	NO	T-BAR	TITUS PAR 24X24 FACE	SEE NOTE 2

NOTES:
 1) NECK SIZES AS FOLLOWS:

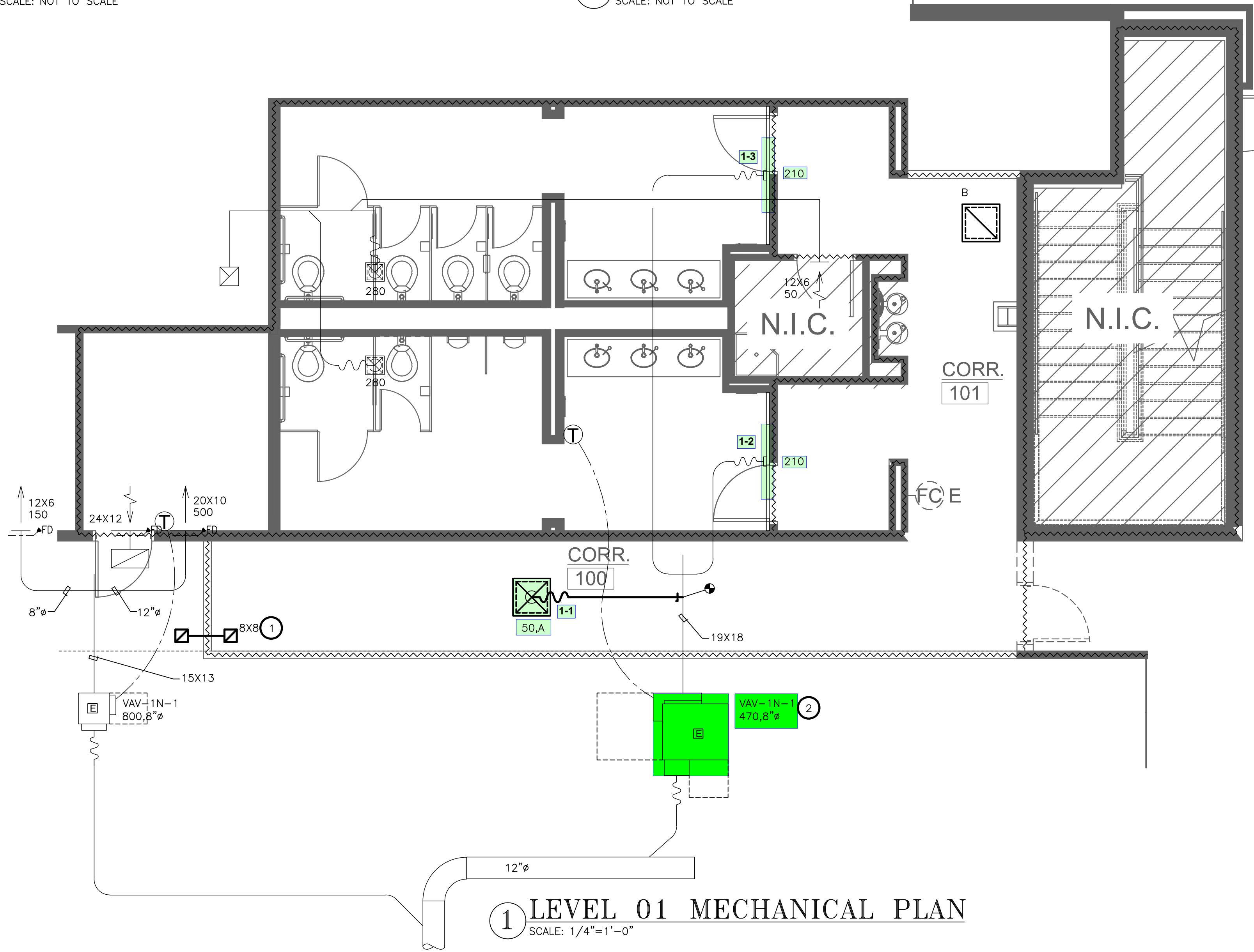
DESIGNATION "A"	NECK SIZE	DESIGNATION "C"	NECK SIZE
CFM RANGE		CFM RANGE	
000-300	8"RD	000-220	8"RD
305-435	10"RD	225-300	10"RD
440-600	12"RD	305-360	12"RD
600-745	14"RD	365-450	14"RD

2) NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN NEW MODEL NUMBER AND EXISTING NUMBER PRIOR TO PURCHASE.
 3) CONTINUOUS GRILLE; PROVIDE REQUIRED MP-39 PLENUMS AS NEEDED.
 4) APPROVED MANUFACTURERS: PRICE, TITUS, NAILOR, GREENHECK, & KRUEGER.



② DIFFUSER CONNECTION DETAIL
SCALE: NOT TO SCALE

③ RA TRANSFER BOOT DETAIL
SCALE: NOT TO SCALE



① LEVEL 01 MECHANICAL PLAN
SCALE: 1/4"=1'-0"

HVAC SYMBOLS

SYMBOL	DESCRIPTION
150 X 10 X 100 A	REDISTRIBUTE AIR TO EXISTING DIFFUSER AS INDICATED ON PLAN
100 A	INDICATES SIZE, CFM, AND DIFFUSER TYPE
[Symbol]	NEW CEILING SUPPLY DIFFUSER
[Symbol]	NEW RETURN AIR/EXHAUST GRILLE
[Symbol]	EXISTING RETURN AIR/EXHAUST GRILLE
[Symbol]	EXISTING SLOT DIFFUSER
[Symbol]	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
[Symbol]	EXISTING TO REMAIN
[Symbol]	MANUAL VOLUME CONTROL DAMPER
FD	DUCT TRANSITION
[Symbol]	EXISTING THERMOSTAT
[Symbol]	FLEXIBLE DUCT CONNECTION
[Symbol]	INDICATES A WALL TO DECK (FOR COORDINATION PURPOSE ONLY-REFER TO ARCHITECTS PLANS FOR REQUIREMENTS)

NOTES BY SYMBOL (X) :

- PROVIDE ACOUSTICALLY LINED RETURN AIR BOOT THRU WALL TO DECK AS HIGH AS POSSIBLE ABOVE CEILING WITH INLET ELBOW AND OUTLET 90° ELBOW FACING UPWARD. SIZE PER PLANS. REFER TO DETAIL SHEET MO.01 FOR MORE INFORMATION.
- CONTRACTOR SHALL MEASURE THE CFM OF THE EXISTING DIFFUSER(S) AS INDICATED IN THIS ZONE THAT ARE CONNECTED TO THIS TERMINAL BOX PRIOR TO ANY DEMO WORK. UTILIZE THIS MEASURED CFM FOR THE SAME DIFFUSERS DURING REBALANCE OF THE REMAINING DIFFUSERS AFTER CONSTRUCTION IS COMPLETE.

GENERAL NOTES:

- ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS.
- ALL WORK SHALL COMPLY WITH THE BUILDING TENANT CONSTRUCTION GUIDE. COORDINATE WITH BUILDING MANAGEMENT/OWNER FOR ACCESS TO ANY TENANT LEASE SPACES THAT MIGHT BE REQUIRED FOR THE INSTALLATION. UNLESS DIRECTED BY LANDLORD ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED FOR 1 YEAR.
- EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE A TRUE REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
- CONTRACTOR SHALL ENGAGE AN INDEPENDENT AIR BALANCING COMPANY TO OBTAIN AIR QUANTITIES SHOWN ON DRAWING. AT COMPLETION OF AIR BALANCE, BALANCING DAMPER SHALL BE TIGHTENED AND PROPERLY SEALED WITH FOIL TAPE.
- ALL MEDIUM AND LOW PRESSURE DUCTWORK SHALL BE GALVANIZED SHEET METAL, FABRICATED. INSTALL AND SEAL MEDIUM PRESSURE DUCTWORK FOR 3"W.G. AND LOW PRESSURE DUCTWORK FOR 1"W.G. IN ACCORDANCE WITH SMACNA STANDARD. DUCTWORK SHALL BE INSULATED WITH FIBERGLASS BLANKET WITH FOIL FACED VAPOR BARRIER TO MEET IECC REQUIREMENT (MIN R5 VALUE).
- ALL SUPPLY AND RETURN DUCT SIZES ARE FREE AREAS.
- INDIVIDUAL DUCT RUN-OUTS TO EACH DIFFUSER SHALL BE SIZED IN ACCORDANCE TO THE DIFFUSER NECK SIZE FOUND IN THE GRILLES-REGISTERS-DIFFUSERS SCHEDULE UNLESS NOTED OTHERWISE
- OFFSET DUCTS INTO JOIST SPACE FOR CLEARANCE WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF OTHER TRADES.
- INSULATED FLEX DUCT IN THE LOW PRESSURE SYSTEM SHALL BE LIMITED TO AN OVERALL LENGTH OF SIX (6) FEET WITH A MAXIMUM OF A 90 DEGREE CHANGE IN DIRECTION. SUPPORTS SHALL BE SADDLE BANDED TO STRUCTURE. SUPPORTING FROM FIRE PROTECTION PIPING, ELECTRICAL CONDUIT OR CEILING SUPPORT WIRES IS NOT ACCEPTABLE.
- PIPES AND DUCTS TO BE COORDINATED ON JOB WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS. ROUTE AS HIGH AS PHYSICALLY POSSIBLE.
- COORDINATE CEILING DIFFUSERS AND GRILLES WITH LIGHTING FIXTURES. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
- REPAIR AND PATCH CONSTRUCTION DAMAGED DUE TO THE DEMOLITION OF THIS PROJECT, USING SAME METHODS AND MATERIALS TO MATCH EXISTING.
- PROVIDE TEMPORARY HIGH EFFICIENCY FILTER MEDIA ON MAIN RETURN AIR AND EXHAUST FROM FLOOR AT BEGINNING OF PROJECT AND REPLACED AT TWO (2) WEEK INTERVALS UNTIL PROJECT COMPLETION AT WHICH TIME THE FILTER MEDIA SHALL BE REMOVED.
- FLEXIBLE DUCTS SHALL BE SIMILAR AND EQUAL TO THERMOFLEX: TYPE M-KE. FLEXIBLE DUCTS SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF UL-181, NFPA 90-A AND OTHER GOVERNING AUTHORITIES.
- DUCTLINER SHALL BE 1-INCH ACOUSTICAL DUCT LINING IN ACCORDANCE WITH SMACNA STANDARDS. DUCT LINING SHALL BE OWENS-CORNING FIBERGLAS "AEROFLEX" NO. 200 OR EQUAL.
- ALL EXISTING DUCTWORK SHALL BE FIELD VERIFIED TO BE INSULATED AND IN GOOD CONDITION. ANY TORN, DAMAGED OR MISSING INSULATION WILL BE REPLACED. EXISTING CONTROLS SHALL BE CONFIRMED TO BE IN WORKING CONDITION.
- ENSURE ALL DEBRIS ABOVE RETURN AIR GRILLES IS REMOVED AND RETURN AIR GRILLE HAS A CLEAR OPEN PATH TO PLENUM.

INTERIOR DESIGNER

2641 IRVING BLVD.
DALLAS, TEXAS 75207
TEL: 214-638-6800

ENGINEER

Purdy - McGuire
Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, Texas 75248-1147
Firm Registration # F-1511
Tel: 972-239-5357
Fax: 972-239-8231
www.purdy-mcguire.com

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PM JOB NO. 24040.003
PROJECT MGR. TODD JOHNSON

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PROJECT NUMBER: 660-010
 DRAWN BY: EC
 CHECKED BY: CB
 R.S.F.: 369

INTERNATIONAL BUSINESS PARK
1ST FLOOR CORRIDOR

6275 WEST PLANO
PARKWAY
1ST FLOOR
PLANO, TX 75093

NO.	REVISIONS	DATE

CLIENT/LANDLORD ISSUE DATE: 06/13/2024
 BID ISSUE DATE: 06/19/2024
 PERMIT ISSUE DATE: 06/19/2024

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LEVEL 01 MECHANICAL
PLAN

DRAWING NUMBER:

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