

# Alteration Type II BURGER KING MECHANICAL ONLY 3500 Boston Road Bronx, NY 10803

## HVAC NOTES 2014: GENERAL

- CONTRACTOR WILL BE HELD RESPONSIBLE TO HAVE VISITED AND EXAMINED TO PREMISES PRIOR TO SUBMITTING HIS PROPOSAL IN ORDER TO UNDERSTAND THE EXISTING CONDITIONS RELATED TO HIS WORK.
- WORK IN THIS BUILDING SHALL BE DONE WHEN AND AS DIRECTED AND SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO ITS OCCUPANTS. PLAN INSTALLATION OF WORK AND CONNECTIONS TO EXISTING WORK TO AVOID INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES.
- MATERIALS, DOCUMENTATION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS, LOCAL CODES AND AS SPECIFIED.
- REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE WORK. EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALLOWANCE FOR SUCH REMOVALS AND RELOCATIONS.
- DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIALS, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW YORK.
- FIREPROOFING AND INSULATION DISTURBED BY NEW CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.
- SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NON-COMBUSTIBLE MATERIAL.
- INVESTIGATE PATH THROUGH WHICH EQUIPMENT WILL BE MOVED. EQUIPMENT SHALL BE BROKEN DOWN IN SECTIONS AS NEEDED FOR MOVING THROUGH BUILDING SPACES. ASCERTAIN FROM BUILDING MANAGEMENT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED.
- ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSTALL EQUIPMENT AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE REQUIRED TO ACCOMPLISH THIS.
- CHANGES IN ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND PLUMBING REQUIREMENTS FOR SUBSTITUTED EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE BIDDER WISHING TO MAKE THE SUBSTITUTION. THIS SHALL INCLUDE THE COST OF ANY REDESIGN BY THE AFFECTED DESIGNERS. ANY ADDITIONAL COST INCURRED BY THE AFFECTED SUBCONTRACTORS SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND NOT THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL FLOORING AND ROOFS ALONG THE EQUIPMENT RIGGING PATH AND FOR PROVIDING ALL MATERIALS TO ENSURE THEIR PROTECTION, SUCH AS FIRE RATED PLYWOOD.
- MECHANICAL CONTRACTOR, ALSO REFERRED TO AS DIVISION 15. SHALL COORDINATE ALL CONTROL WIRING AND ASSOCIATED CONDUITS WITH EQUIPMENT MANUFACTURERES, AND COORDINATE ALL POWER REQUIREMENTS WITH DIVISION 16. CONNECT ALL REMOTE DEVICES TO UNITS FOR SPECIFIED CONTROL AS REQUIRED. PROVIDE ALL ADDITIONAL DEVICES, RELAYS, TRANSFORMERS, ETC. AS SUPERVISION OF MANUFACTURERE'S REPRESENTATIVE. DIVISION 15 TO PROVIDE A COORDINATED WIRING DIAGRAM FOR REVIEW AND APPROVAL BY ENGINEER BEFORE WORK IS STARTED. PROVIDE LAMINATED AS BUILT WIRING DIAGRAM AT COMPLETION OF CONSTRUCTION.
- COORDINATE ALL WORK ASSOCIATED WITH THE EQUIPMENT MANUFACTURERES AND ALL POWER SOURCE WIRING AND INTERFACING WITH DIVISION 16. CONTROL AND INTERLOCK WIRING SHALL BE DONE BY DIVISION 15. AND DIVISION 16 SHALL PROVIDE POWER. DIVISION 15 AND MANUFACTURER SHALL FURNISH ALL REQUIRED WIRING DIAGRAMS. MECHANICAL CONTRACTOR, DIVISION 15, IS RESPONSIBLE FOR PROPER WIRING AND OPERATION OF ALL EQUIPMENT.
- PIPING THROUGH WALLS, FLOORS AND BUILDING CONSTRUCTIONS SHALL BE PROVIDED WITH FIRE RATED PIPE SLEEVES. SLEEVES SHALL EXTEND THE FULL DEPTH OF THE CONSTRUCTION PENETRATED (SEE DETAIL).
- ALL DIMENSIONS AND ELEVATIONS FOR NEW AND EXISTING EQUIPMENT, PIPING AND APPARATUS ARE APPROXIMATE AND ARE ONLY FOR CONTRACTOR'S GUIDANCE. CONTRACTOR SHALL EXECUTE SHOP DRAWINGS SHOWING ALL DIMENSIONS AND ELEVATIONS VERIFIED IN THE FIELD.
- ALL REMOVED EQUIPMENT AND MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.

## BUILDING DEPARTMENT NOTES:

- ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE NEW YORK CITY (2014) BUILDING CODE, MECHANICAL CODE, ENERGY CONSERVATION CODE.
- MECHANICAL VENTILATION AIR CONDITIONING AND REFRIGERATION: INSPECTION AND TESTS OF THE REQUIRED VENTILATION SYSTEM AS PER NYC 2014 MECHANICAL CODE.
- THE FOLLOWING WORK ITEMS, COMPONENTS MATERIALS, CAPACITIES, ETC., SHALL COMPLY WITH THE FOLLOWING CODE REFERENCE.
- DUCT CONSTRUCTION AND SUPPLY INTAKES, EXHAUST AND RELIEVES FILTERS.
- NOISE CRITERIA LEVELS AND TEST PROCEDURE FOR SOUND POWER LEVELS.
- REFER TO ARCHITECTURAL DRAWING FOR FIRE RATED WALL LOCATIONS AND RATED CONSTRUCTION.
- THE VENTILATION INDEX FOR ALL AREAS COMPLIES WITH THE MINIMUM CODE REQUIREMENTS (NYC CODE 2014). ALL CALCULATIONS OF THE VENTILATION INDEX ARE MADE WITHOUT TAKING ANY CREDIT FOR EXTERIOR WINDOWS AND/OR OPENING IN AIR CONDITIONED AREAS.
- UPON COMPLETION OF THIS VENTILATION SYSTEM, A TEST SHALL BE CONDUCTED IN THE PRESENCE OF AND DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR HAVING NOT LESS THAN FIVE (5) YEARS OF EXPERIENCE SUPERVISING INSTALLATION OF VENTILATING SYSTEMS. THE TEST SHALL SHOW COMPLIANCE WITH THE CODE REQUIREMENTS FOR VENTILATION AND THE PROPER FUNCTIONING OF ALL OPERATING DEVICES BEFORE THE SYSTEM IS APPROVED. THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO CONDUCTS THE TESTS SHALL FILE A CERTIFICATE AS TO WHETHER THE SYSTEM COMPLIES WITH THE APPLICABLE LAWS. HE SHALL ALSO FILE WITH THE CERTIFICATION. A REPORT OF THE TEST, THE TEST AND REPORT SHALL BE MADE IN A MANNER SATISFACTORY TO THE SUPERINTENDENT. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING NORMAL OCCUPANCY OF THE STRUCTURE AS PROVIDED IN THE APPLICABLE SECTIONS OF THE CODE. BASE BUILDING PLANS ARE FILED FOR SINGLE TENANT OCCUPANCY. ALL TENANT PLANS WILL BE FILED UNDER SEPARATE APPLICATIONS.
- ALL VENTILATING AND HANGING DUCTWORK, BOTH HIGH AND LOW VELOCITY, TO BE CONSTRUCTED IN ACCORDANCE WITH THE DUCT MANUALS OF SMACNA, LATEST EDITION.

## LIST OF DRAWINGS - 9 Sheets including Title Sheet

### Title Sheet:

T-001.01 Project Information, List of Drawings & Plot Plan 03-23-21

### Mechanical:

M-001.00 HVAC Legend & Notes 03-23-21  
M-100.00 Roof Mechanical Plan 02-19-21  
M-101.00 First Floor Mechanical Plan 03-23-21  
M-200.00 HVAC Details 03-23-21  
M-300.00 HVAC Specifications 03-23-21

### Energy:

EN-001.00 Energy Code Compliance Notes 02-19-21  
EN-002.00 Energy Code Progress Inspections 02-19-21  
EN-003.00 Tabular Analysis 02-19-21

## GENERAL NOTES:

- CONTRACTOR TO CHECK AND VERIFY ALL MEASUREMENTS AND DIMENSIONS AND ACTUAL CONDITIONS AT SITE AND BE HELD RESPONSIBLE FOR SAME CONTRACTOR TO OBTAIN ALL PERMITS AND FEES TO START AND COMPLETE ALTERATION-UPON COMPLETION OF JOB. CONTRACTOR IS TO SUPPLY OWNER WITH A CERTIFICATE OF OCCUPANCY.
- A STATEMENT SHALL BE FILED BY THE OWNER, THAT THE SYSTEM OF VENTILATION WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS PROVIDED IN THE APPLICATION LAWS AS FILED BY THE LICENSED PROFESSIONAL ENGINEER OR OTHER QUALIFIED PERSON WHO CONDUCTED THE TEST OF THE SYSTEM AND NOT UNTIL THE STATEMENT OF THE OWNER IS FILED.
- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2014 NYC PLUMBING CODE.
- ALL WATER SUPPLIES SHALL BE OVER THE RIM OR SHALL BE PROVIDED WITH APPROVED VACUUM BREAKER FOR WATER CLOSET FLUSH VALVES, HOW BIBBS, ETC.
- ALL NOTES, DIMENSIONS, DETAILS AND JOB CONDITIONS ARE TO BE CHECKED AND VERIFIED, ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- ALL REQUIRED AND NECESSARY PERMITS SHALL BE SECURED FROM ALL MUNICIPAL AGENCIES HAVING JURISDICTION AT THE COST AND EXPENSE OF THE CONTRACTOR. PRIOR TO START OF WORK, CONTRACTOR SHALL OBTAIN APPROVAL OF ALL COMPLETED WORK AS REQUIRED BY NEW YORK CITY ADMINISTRATIVE CODE AND ALL REQUIRED AGENCIES.
- EACH CONTRACTOR WILL BE HELD RESPONSIBLE FOR HIS WORK. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE BUILDINGS AND CONDITIONS AT THE BUILDINGS AND WILL BE RESPONSIBLE FOR THE JOINING OF WORK OF ALL TRADES.
- ALL MATERIALS, ASSEMBLIES AND METHODS OF CONSTRUCTION NOT LISTED AS CONTROLLED INSPECTIONS SHALL BE SUBJECT TO SEMI-CONTROLLED INSPECTION BY THE PERSON SUPERINTENDING THE CONSTRUCTION. SIGNED COPIES OF ALL TEST AND INSPECTION REPORTS SHALL BE FILED THROUGH THE ARCHITECT/ENGINEER WITH THE DEPARTMENT.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE REQUIREMENTS OF CHAPTER 33 "SAFEGUARDS DURING CONSTRUCTION OR DEMOLITION."
- CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, BARRICADES, TEMPORARY FENCES, PARTITIONS, AND EXCAVATIONS, ETC. TO ACCOMPLISH ALL OF THE WORK IN AN APPROVED MANNER.
- NO DRAWINGS TO BE SCALED, DIMENSIONS ARE TO BE USED.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NEW YORK CITY BUILDING CODE.
- ALL ELECTRIC WORK TO COMPLY WITH THE NYC BUREAU OF ELECTRICAL CONTROL.
- THE CONTRACTOR SHALL SEE THAT THE JOB IS BROOM SWEEPED UPON COMPLETION OF THE WORK.
- THE ARCHITECT/ENGINEER HAS NOT BEEN RETAINED TO SUPERVISE ANY CONSTRUCTION OR INSTALLATION FOR ANY EQUIPMENT.

## SAFEGUARDS DURING CONSTRUCTION

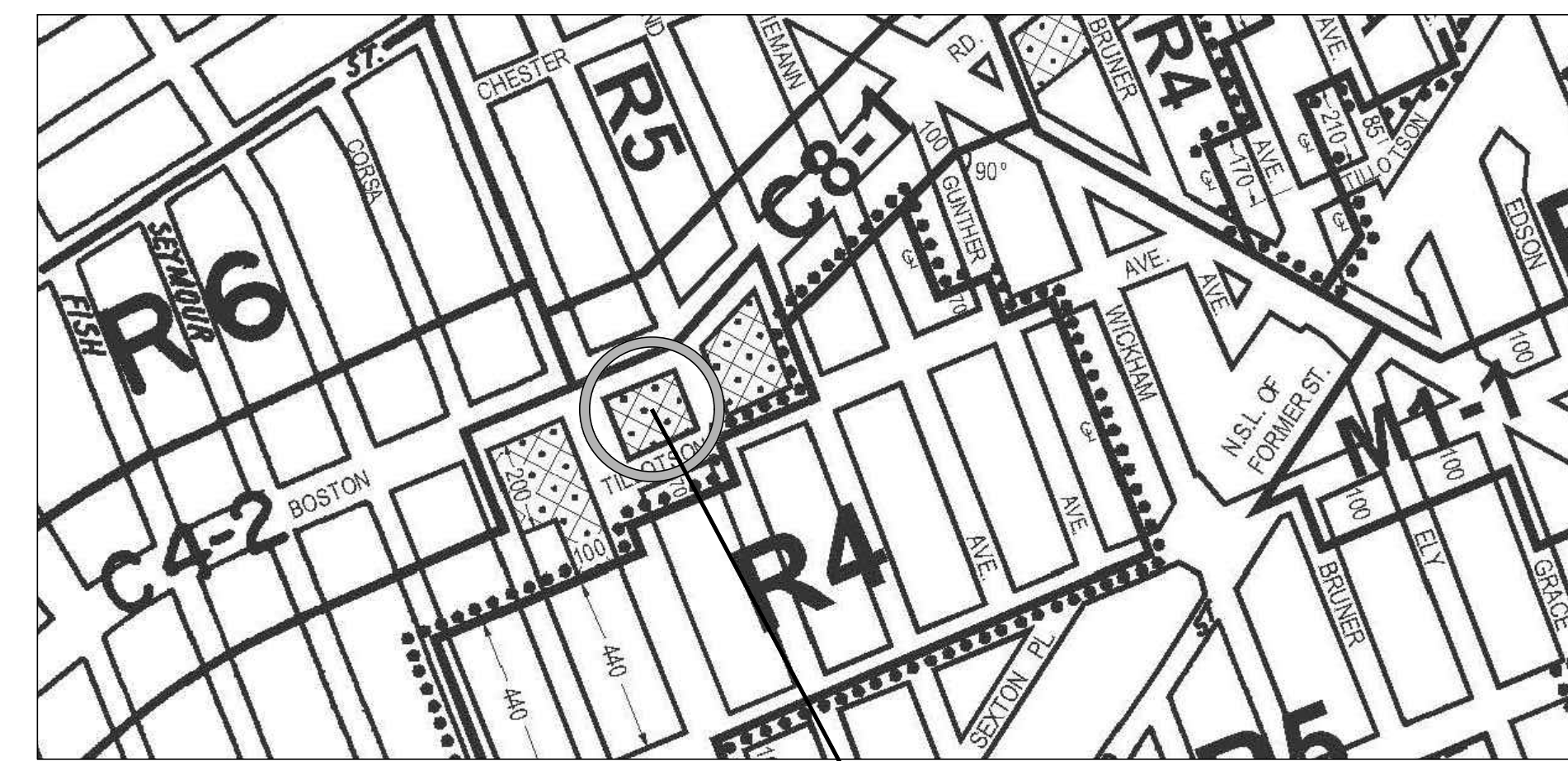
3301.1.2 FIRE CODE: IN ADDITION TO THE REQUIREMENTS OF THIS CHAPTER, CONSTRUCTION OR DEMOLITION OPERATIONS SHALL ALSO BE CONDUCTED IN CONFORMANCE WITH THE NEW YORK CITY FIRE CODE.

3303.7 FIRE PREVENTION AND FIRE PROTECTION: FIRE FIGHTING EQUIPMENT, ACCESS AT THE CONSTRUCTION OR DEMOLITION SITE AND THE CONDUCT OF ALL CONSTRUCTION OR DEMOLITION OPERATIONS AFFECTING FIRE PREVENTION AND FIRE FIGHTING SHALL COMPLY WITH THE NEW YORK CITY FIRE CODE.

3303.7.1 WATER SUPPLY: NO HAZARDOUS OR COMBUSTIBLE MATERIAL SHALL BE KEPT AT THE SITE UNLESS WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, IS AVAILABLE AT THE SITE.

3303.7.2 FIRE EXTINGUISHERS: FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH THE NEW YORK CITY FIRE CODE.

SECTION FC 1404: PRECAUTIONS AGAINST FIRE 1404.1 SMOKING. SMOKING SHALL BE PROHIBITED AT ALL CONSTRUCTION SITES. SIGNS SHALL BE POSTED IN ACCORDANCE WITH SECTION 310.



## ZONING MAP 2b NOT TO SCALE

## SCOPE OF WORK:

THIS APPLICATION IS BEING FILED FOR MECHANICAL WORK TO MODIFY EXISTING DUCTWORK LAYOUT AT FIRST FLOOR COMMERCIAL SPACE. REPLACE (3) EXISTING ROOFTOP UNITS ON EXISTING ROUGHING & CAP & REMOVE (1) EXISTING ROOFTOP UNIT.

## RELATED FILINGS:

- ALTERATION TYPE I ESTABLISHING PERMITTED USE & OCCUPANCY FILED & APPROVED UNDER SEPARATE APPLICATION #220710498.
- ALL RELATED CONSTRUCTION WORK FILED UNDER SEPARATE APPLICATION IN #X00450536 DOB.
- RELATED PLUMBING WORK FILED UNDER SEPARATE APPLICATION #X00433349-11 IN DOB NOW.

## ENERGY COMPLIANCE STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE & THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY, USING CHAPTER C4.

## SPECIAL INSPECTIONS:

SPECIAL INSPECTION REPORTS TO BE PROVIDED BY A CERTIFIED SPECIAL INSPECTION AGENCY.

THE FOLLOWING SPECIAL INSPECTION ITEMS ARE REQUIRED FOR THIS APPLICATION:

- MECHANICAL SYSTEMS

## PROGRESS INSPECTIONS:

PROGRESS INSPECTION REPORTS TO BE PROVIDED BY A CERTIFIED SPECIAL INSPECTION AGENCY.

THE FOLLOWING PROGRESS INSPECTION ITEMS ARE REQUIRED FOR THIS APPLICATION:

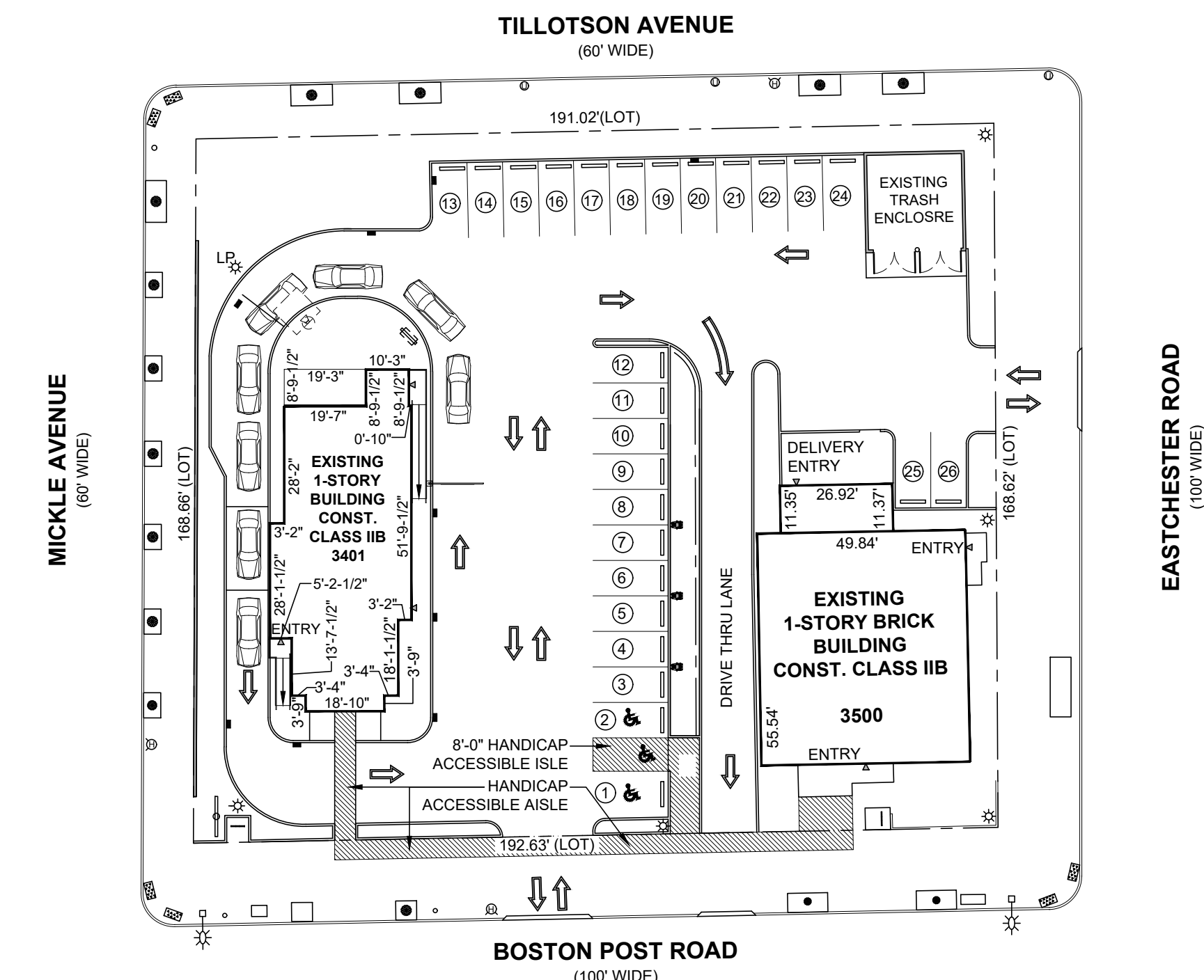
- ENERGY CODE COMPLIANCE INSPECTIONS
- FINAL

## ENERGY CODE PROGRESS INSPECTIONS:

ENERGY CODE PROGRESS INSPECTION REPORTS TO BE PROVIDED BY A CERTIFIED SPECIAL INSPECTION AGENCY.

THE FOLLOWING ENERGY CODE PROGRESS INSPECTION ITEMS ARE REQUIRED FOR THIS APPLICATION:

- HVAC-R AND SERVICE WATER HEATING EQUIPMENT
- HVAC-R AND SERVICE WATER HEATING CONTROLS
- HVAC-R AND SERVICE WATER PIPING DESIGN AND INSULATION
- MAINTENANCE INFORMATION



## PLOT PLAN SCALE: 1/32" = 1'-0"

BLOCK: 4723  
LOT: 66  
ZONE: C2-2 IN R5  
MAP: 2b

Job No.: 18049  
Date: 02-19-21

Drawn By: [Signature]  
Sheet: 1 of 9

Drawing No.: T-001.01



Rev. #	Date:	Description:	By:
02-11-21		AS PER DOB OBJECTIONS	MY
02-19-21		AS PER DOB OBJECTIONS	MY
1	03-23-21	AS PER CHANGES TO MECHANICAL SCOPE OF WORK	MY

Special & Progress Inspections:  
M. JUST ARCHITECTURE, P.C. SHALL ONLY IDENTIFY ALL REQUIRED SPECIAL & PROGRESS INSPECTIONS AS THE DESIGN APPLICANT.

THE OWNER MUST RETAIN A CERTIFIED SPECIAL INSPECTION AGENCY PRIOR TO THE ISSUANCE OF A WORK PERMIT FOR ALL OF THE REQUIRED SPECIAL & PROGRESS INSPECTION ITEMS.

Note:  
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THIS APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

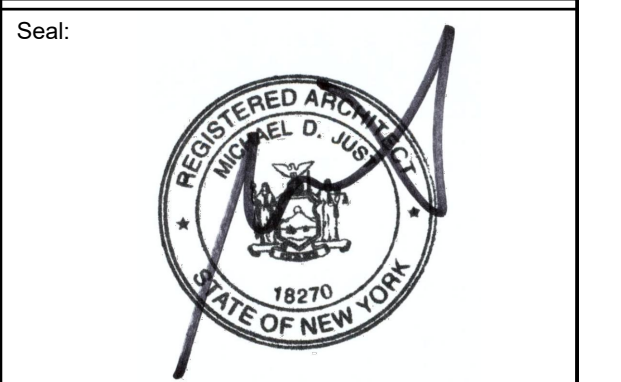
New York Alteration Warning Statement:  
IT IS A VIOLATION OF NEW YORK REGULATION 69-56) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY WITHOUT AFFIXING TO THE ITEM HIS SEAL AND THE NOTIFICATION "ALTERED BY" FOLLOWED BY A SIGNATURE, DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION

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Client:  
Jay DellaMonica  
Creative Food Corp  
200 Garden City Plaza  
Garden City, NY 11530

DOB Approval Stamps:

Project Address:  
3500 Boston Post Road  
Bronx, NY 10803



Drawing Title:  
PROJECT INFORMATION,  
LIST OF DRAWINGS &  
PLOT PLAN

NYCDOB APPLICATION:  
X00433355-P1

BLOCK: 4723  
LOT: 66  
ZONE: C2-2 IN R5  
MAP: 2b

Job No.: 18049  
Date: 02-19-21  
Drawn By: [Signature]  
Sheet: 1 of 9

Drawing No.: T-001.01



Rev. #	Date	Description	By
02-11-21		AS PER DOB OBJECTIONS	MY
02-19-21		AS PER DOB OBJECTIONS	MY
1	03-23-21	AS PER CHANGES TO MECHANICAL SCOPE OF WORK	MY

Special & Progress Inspections:  
M. JUST ARCHITECTURE, P.C. SHALL ONLY IDENTIFY ALL REQUIRED SPECIAL & PROGRESS INSPECTIONS AS THE DESIGN APPLICANT.

THE OWNER MUST RETAIN A CERTIFIED SPECIAL INSPECTION AGENCY PRIOR TO THE ISSUANCE OF A WORK PERMIT FOR ALL OF THE REQUIRED SPECIAL & PROGRESS INSPECTION ITEMS.

Note:  
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

New York Alteration Warning Statement:  
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Copyright:  
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Client:  
Jay DellaMonica  
Creative Food Corp  
200 Garden City Plaza  
Garden City, NY 11530

DOB Approval Stamps:

Project Address:  
**3500 Boston Post Road  
Bronx, NY 10803**



Drawing Title:  
**ROOF MECHANICAL PLAN**

NYCDOB APPLICATION:  
**X00433355-11**

BLOCK: 4723	Job No.: 18049	Date: 02-19-21
LOT: 66	Drawn By: 2b	Sheet: 3 of 9
ZONE: C2-2 in R5	MAP: MY	

Drawing No.:  
**M-100.00**

**ROOF MECHANICAL LEGEND**

- EXISTING CONSTRUCTION TO REMAIN UNDISTURBED
- MINIMUM 6'-0"Wx9'-0"H FDNY CLEAR ACCESS PATH

**ROOF MECHANICAL NOTES**

- ALL CONDITIONS ARE EXISTING TO REMAIN UNDISTURBED UNLESS OTHERWISE NOTED.
- ALL RELATED PLUMBING WORK FILED UNDER APPLICATION #X00433349-11 IN DOB NOW.
- CAP & REMOVE (1) EXISTING ROOFTOP UNIT AS INDICATED ON PLAN.
- REPLACE (3) EXISTING GAS-FIRED HVAC UNITS ON EXISTING GAS ROUGHING AS INDICATED ON PLAN.
- AS PER TABLE C403.3.2(1) OF THE 2020 NYCECC - AIR CONDITIONERS, AIR COOLED <65,000 BTU/HR, ALL OTHER HEATING SECTION TYPE, SINGLE PACKAGE SHALL HAVE A MINIMUM EFFICIENCY OF 13.0 SEER AS PER TEST PROCEDURE AHRI 340/360.
- AS PER TABLE C403.3.2(1) OF THE 2020 NYCECC - AIR CONDITIONERS, AIR COOLED >=135,000 BTU/HR AND <240,000 BTU/HR, ALL OTHER HEATING SECTION TYPE, SINGLE PACKAGE SHALL HAVE A MINIMUM EFFICIENCY OF 12.2 IEER AS PER TEST PROCEDURE AHRI 340/360.
- AS PER TABLE C403.3.2(4) OF THE 2020 NYCECC - WARM-AIR FURNACES, GAS-FIRED, <225,000 BTU/HR, MAXIMUM CAPACITY SHALL HAVE A MINIMUM EFFICIENCY OF 80% AFUE OR 80% THERMAL EFFICIENCY AS PER TEST PROCEDURE DOE 10 CFR PART 430 OR SECTION 2.39 THERMAL EFFICIENCY, ANSI Z21.47.
- AS PER SECTION C403.5 OF THE 2020 NYCECC - ECONOMIZERS ARE REQUIRED FOR INDIVIDUAL FAN SYSTEMS WITH COOLING CAPACITY GREATER THAN OR EQUAL TO 54,000 BTU/H SERVING OTHER THAN GROUP R OCCUPANCIES.
- AS PER SECTION C408 OF THE 2020 NYCECC - THE BUILDING OPERATIONS AND MAINTENANCE DOCUMENTS SHALL BE PROVIDED TO THE OWNER AND SHALL CONSIST OF MANUFACTURERS' INFORMATION, SPECIFICATIONS AND RECOMMENDATIONS; PROGRAMMING PROCEDURES AND DATA POINTS; NARRATIVES; AND OTHER MEANS OF ILLUSTRATING TO THE OWNER HOW THE BUILDING, EQUIPMENT AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED AND OPERATED. REQUIRED REGULAR MAINTENANCE ACTIONS FOR EQUIPMENT AND SYSTEMS SHALL BE CLEARLY STATED ON A READILY VISIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT.

**ADDITIONAL 2020 ENERGY CODE REQUIREMENTS:**

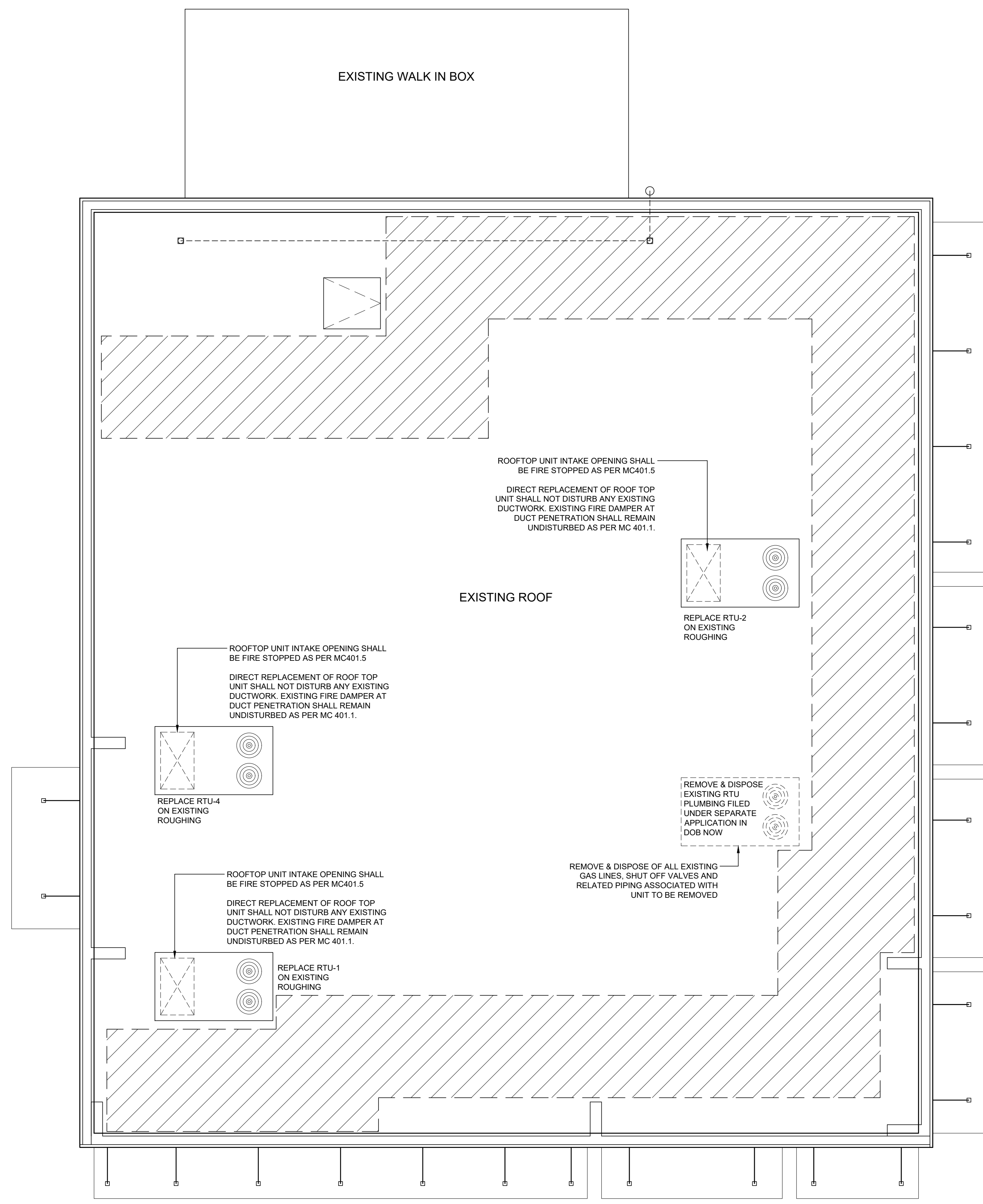
- SEE ENERGY CODE COMPLIANCE NOTES, ENERGY CODE PROGRESS INSPECTIONS AND TABULAR ANALYSIS FOR ENERGY REQUIREMENTS AND PROJECT COORDINATION.
- MAINTENANCE INSTRUCTIONS FOR NEW MECHANICAL UNITS SHALL BE FURNISHED AS REQUIRED BY THE CODE.
- DESIGN LOADS DETERMINED IN ACCORDANCE WITH ANSI/ASHRAE/ACCA STANDARD 183.
- SPECIFIED EQUIPMENT SIZED WITHIN LOAD CALCULATION LIMITS.
- ONE THERMOSTAT IS TO BE PROVIDED FOR EACH ZONE TO MEET THE REQUIREMENTS OF THE CODE.
- EACH THERMOSTAT WILL BE PROGRAMMED TO MEET THE REQUIREMENTS OF THE CODE.
- DUCTS SHALL BE INSULATED AND TAPED TO MEET THE REQUIREMENTS OF THE CODE.
- ALL REFRIGERANT PIPING SHALL BE THERMALLY INSULATED TO MEET THE REQUIREMENTS OF THE CODE.
- EXTERIOR REFRIGERANT PIPING SHALL BE PROTECTED FROM DAMAGE TO MEET THE REQUIREMENTS OF THE CODE.
- ECONOMIZERS TO BE PROVIDED TO MEET THE REQUIREMENTS OF THE CODE.

**RELATED FILINGS:**

- RELATED EXTERIOR SIGNAGE FOR BURGER KING FILED UNDER SEPARATE APPLICATION.
- RELATED TEMPORARY WOOD CONSTRUCTION FENCE FILED UNDER SEPARATE APPLICATION IN DOB NOW.
- RELATED PLUMBING WORK FILED UNDER SEPARATE APPLICATION #X00433349-11 IN DOB NOW.
- RELATED CONSTRUCTION WORK FILED UNDER SEPARATE APPLICATION #X004505361N DOB.

**PROPOSED HVAC INFORMATION:**

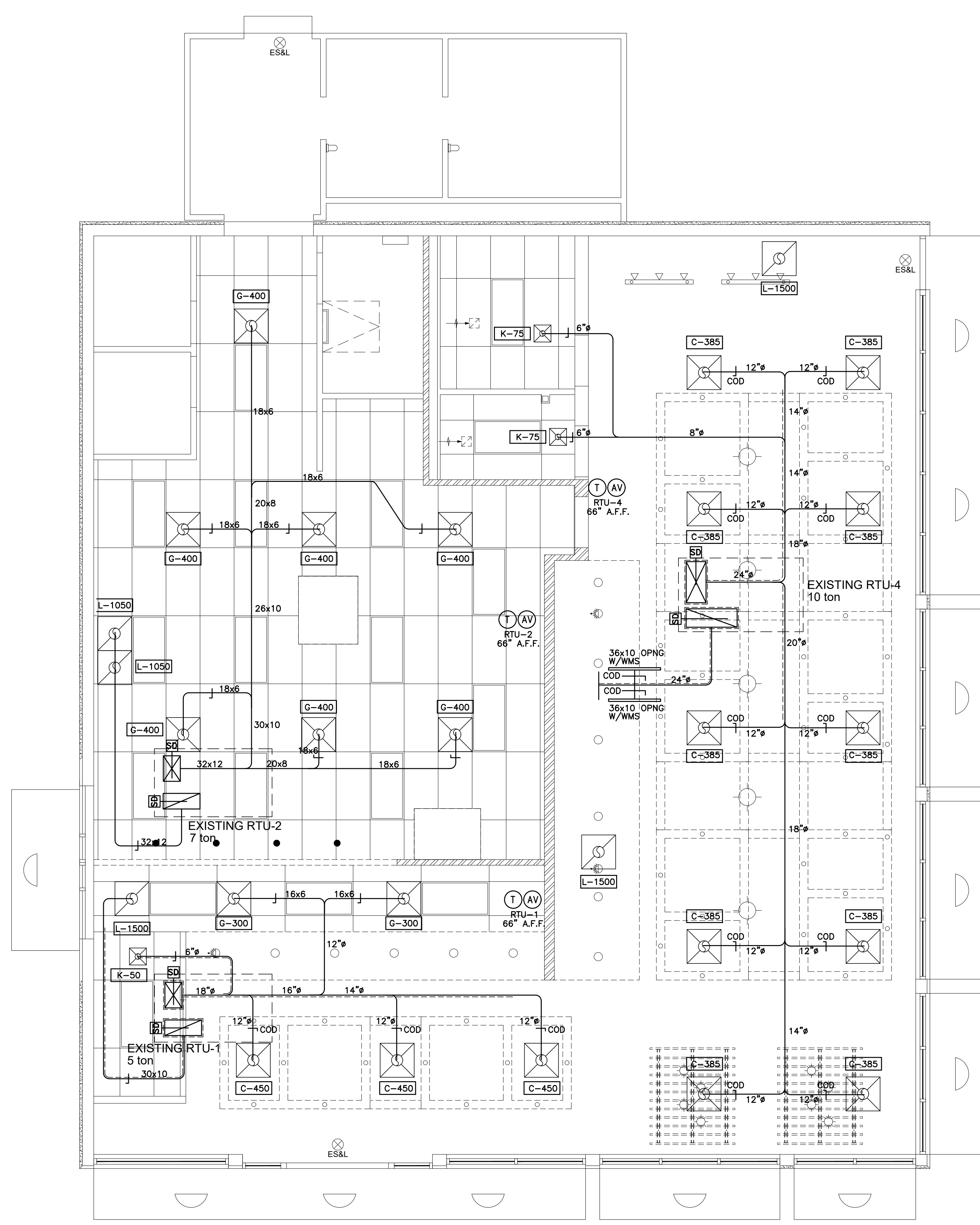
RTU-1	RTU-2
MAKE: CARRIER	MAKE: CARRIER
MODEL #: 48KCEA06A2AA5-0A0A0	MODEL #: 48TCED08A2A5-0A0G0
COOLING CAPACITY: 58,500 BTU/HR	COOLING CAPACITY: 83,000 BTU/HR
COOLING EFFICIENCY: 14.1 SEER/12.0 EER	COOLING EFFICIENCY: 12.8 IEER/11.0 EER
AS PER TEST PROCEDURE: AHRI 340/360	AS PER TEST PROCEDURE: AHRI 340/360
HEATING CAPACITY: 130,000 BTU/HR	HEATING CAPACITY: 180,000 BTU/HR
HEATING EFFICIENCY: 81% THERMAL EFFICIENCY	HEATING EFFICIENCY: 82% THERMAL EFFICIENCY
AS PER TEST PROCEDURE: ANSI Z21.47	AS PER TEST PROCEDURE: ANSI Z21.47
APPROVAL # CSA CERTIFIED	APPROVAL # CSA CERTIFIED
<b>RTU-4</b>	
MAKE: CARRIER	
MODEL #: 48TCED12A2A5-0A0G0	
COOLING CAPACITY: 114,000 BTU/HR	
COOLING EFFICIENCY: 12.8 IEER/11.10 EER	
AS PER TEST PROCEDURE: AHRI 340/360	
HEATING CAPACITY: 224,000 BTU/HR	
HEATING EFFICIENCY: 82% THERMAL EFFICIENCY	
AS PER TEST PROCEDURE: ANSI Z21.47	
APPROVAL # CSA CERTIFIED	



EASTCHESTER ROAD

BOSTON ROAD

**ROOF MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"



BOSTON ROAD

EASTCHESTER ROAD

**FIRST FLOOR MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"

**DIFFUSER SCHEDULE**

SYM.	SIZE	TYPE	DUCT SIZE	MODEL#	FINISH	BOOT SIZE	OPENING SIZE
C	24X24	SUPPLY 4 WAY	10"Ø	NCA10	WHITE	10"Ø	SURFACE
D	24X24	SUPPLY 3 WAY	12"Ø	NCA12-2C	WHITE	12"Ø	T-BAR
E	24X24	SUPPLY 2 WAY (PARALLEL)	12"Ø	NCA12-2P	WHITE	12"Ø	T-BAR
F	24X24	SUPPLY 1 WAY	12"Ø	NCA12-1	WHITE	12"Ø	T-BAR
G	24X24	SUPPLY 4 WAY	10"Ø	NCA10	WHITE	10"Ø	T-BAR
H	24X24	SUPPLY 2 WAY (CORNER)	10"Ø	NCA10-2C	WHITE	10"Ø	T-BAR
J	12X12	SUPPLY 1 WAY W/O B.D.	8"Ø	RH-1	WHITE	12X12	SIZE + 1/4"
K	12X12	SUPPLY 1 WAY W/O B.D.	6"Ø	RH-1	WHITE	12X12	SIZE + 1/4"
L	24X24	RETURN	18"Ø	RH-6	WHITE	22X22	T-BAR
M	12X12	EXHAUST	8"Ø	RH-1	WHITE	12X12	SIZE + 1/4"
N	12X12	EXHAUST	6"Ø	RH-1	WHITE	12X12	SIZE + 1/4"

ALL DIFFUSERS SHALL BE MANUFACTURED BY METALAIR AND 100% ALUMINUM CONSTRUCTION  
 \* PROVIDE WITH FOUR 14"Ø TO 12"Ø REDUCERS FOR TOP OF DIFFUSER  
 \*\* PROVIDE WITH OPPOSED-BLADE DAMPER AT GRILLE  
 NOTE: LOCATION AND ORIENTATION OF DIRECTIONAL BLOW PATTERN DIFFUSERS IN THE KITCHEN IS CRITICAL. INSTALLER WILL ENSURE PROPER INSTALLATION OF DIFFUSERS. CONTACT THE NCA CONSULTANTS PROJECT COORDINATOR IMMEDIATELY WITH ANY CONFLICTS THAT PREVENT INSTALLATION PER THE PROPOSED DESIGN.

**AIR BALANCE SCHEDULE**

TAG	SUPPLY AIR	OUTSIDE AIR	RETURN AIR	EXHAUST AIR	BLDG. PRESSURE	% OUTSIDE AIR
RTU-1	2000 CFM	500 CFM	1500 CFM	---	+ 500 CFM	25
RTU-2	2800 CFM	700 CFM	2100 CFM	---	+ 700 CFM	25
RTU-3	4000 CFM	1000 CFM	3000 CFM	---	+ 1000 CFM	25
EF-1	---	---	---	850 CFM*	- 850 CFM	---
EF-2	---	---	---	1100 CFM*	- 1100 CFM	---
EF-3	---	---	---	150 CFM	- 150 CFM	---
<b>TOTAL</b>	<b>8800 CFM</b>	<b>2200 CFM</b>	<b>6600 CFM</b>	<b>2100 CFM</b>	<b>+ 100 CFM</b>	

\*NOTE: UPON START-UP VERIFY THAT THE EXHAUST FAN CURRENT SENSOR IS SET TO THE MOTOR AMPERAGE. IF IT IS NECESSARY TO ADJUST THE AMPERAGE OF THE EXHAUST HOOD FAN MOTOR, THE FAN MOTOR CURRENT SENSOR MUST BE RESET BY THE ELECTRICAL CONTRACTOR AS FOLLOWS: ADJUST UNDERCURRENT POTENTIOMETER TO MINIMUM (CLOCKWISE IS MAXIMUM.) APPLY CURRENT. ONCE CURRENT IS STABILIZED, INCREASE UNDERCURRENT POT UNTIL RED LED LIGHTS. WITHIN SEVEN SECONDS TURN DOWN UNTIL RED LIGHT TURNS OFF. IF A LIGHT REMAINS ON FOR MORE THAN TEN SECONDS, DISCONNECT SUPPLY VOLTAGE TO RESET. SEE MANUFACTURERS OPERATION-INSTALLATION INSTRUCTIONS THAT SHIP WITH THE FAN WITH LIMITED BUILDING PRESSURE. THE ±10% TOLERANCE IS NOT ACCEPTABLE. SET CFM AS SPECIFIED. ENSURE THAT EXHAUST FAN PULLEY IS ADJUSTED FOR PROPER ALIGNMENT.

Rev. #	Date	Description	By
02-11-21		AS PER DOB OBJECTIONS	MY
02-19-21		AS PER DOB OBJECTIONS	MY
1	03-23-21	AS PER CHANGES TO MECHANICAL SCOPE OF WORK	MY

Special & Progress Inspections:  
 M. JUST ARCHITECTURE, P.C. SHALL ONLY IDENTIFY ALL REQUIRED SPECIAL & PROGRESS INSPECTIONS AS THE DESIGN APPLICANT.

THE OWNER MUST RETAIN A CERTIFIED SPECIAL INSPECTION AGENCY PRIOR TO THE ISSUANCE OF A WORK PERMIT FOR ALL OF THE REQUIRED SPECIAL & PROGRESS INSPECTION ITEMS.

Note:  
 THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

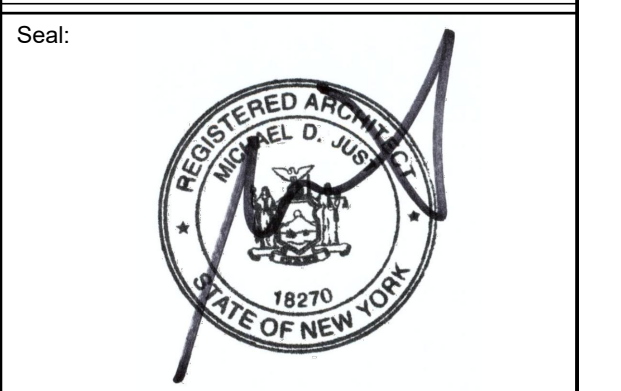
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Client:  
 Jay DellaMonica  
 Creative Food Corp  
 200 Garden City Plaza  
 Garden City, NY 11530

DOB Approval Stamps:

Project Address:  
**3500 Boston Post Road**  
**Bronx, NY 10803**



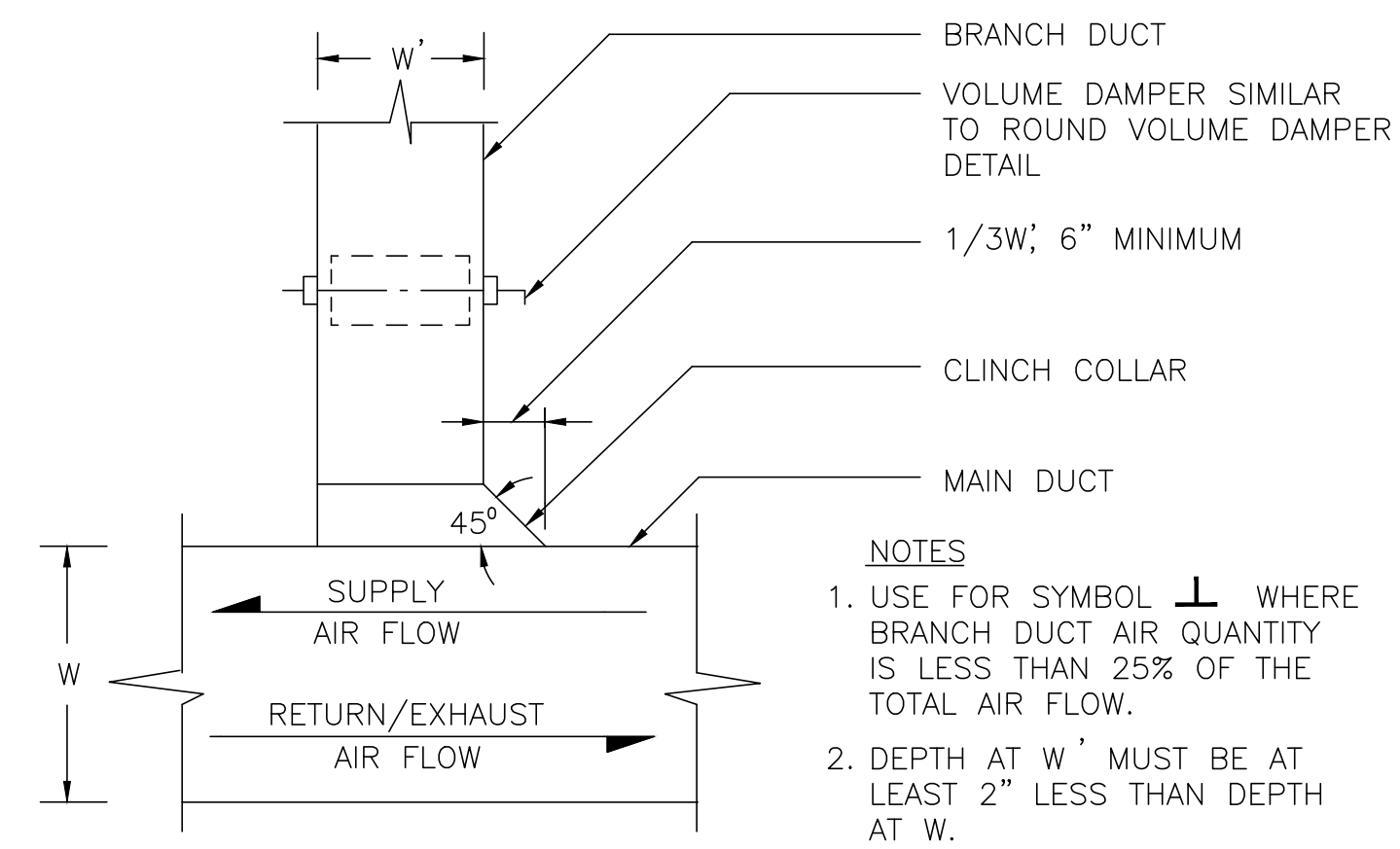
Drawing Title:  
**FIRST FLOOR MECHANICAL PLAN**

NYCDOB APPLICATION:  
**X00433355-11**

BLOCK: 4723  
 LOT: 66  
 ZONE: C2-2 in R5  
 MAP: 2b

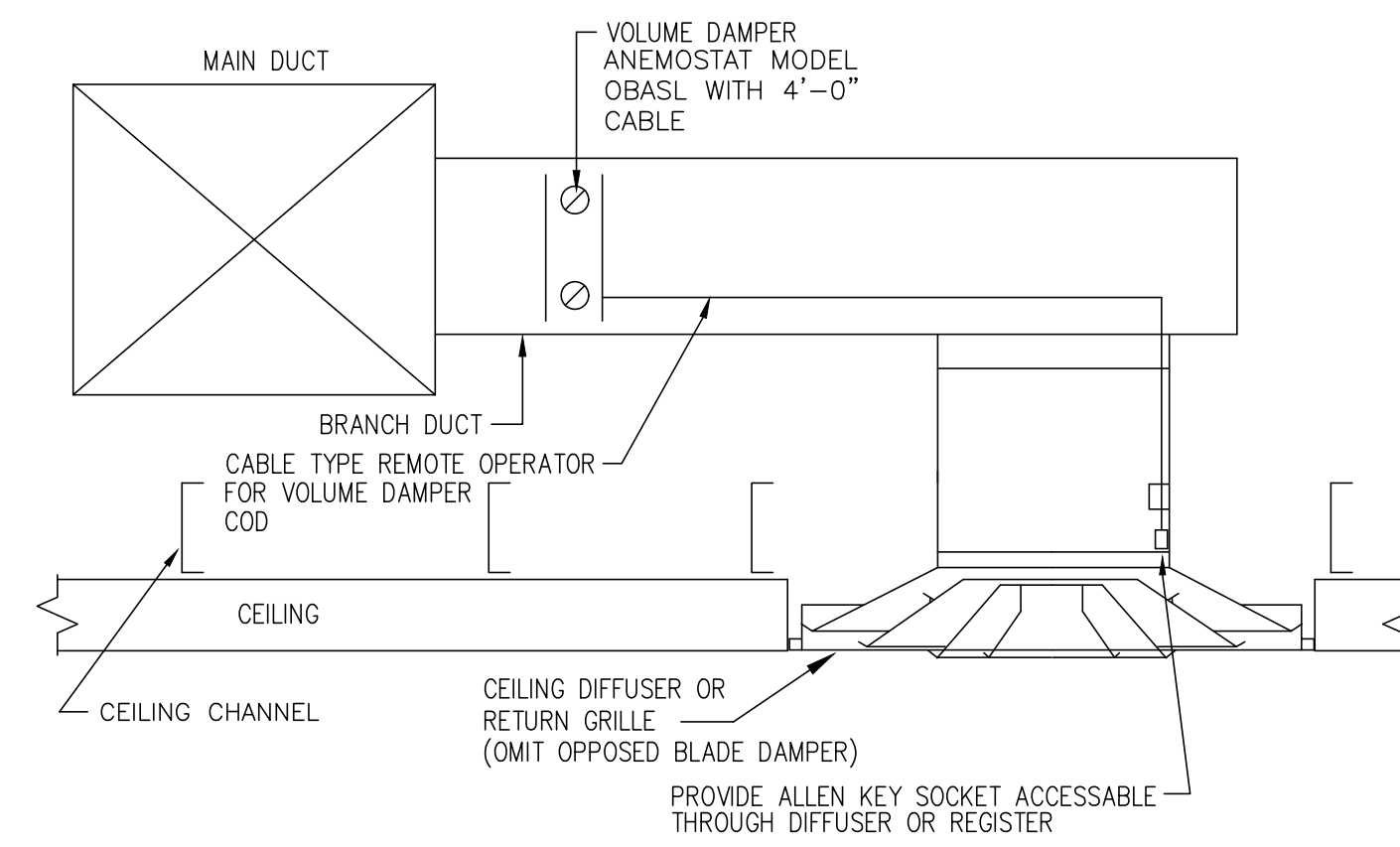
Job No.: 18049  
 Date: 02-19-21  
 Drawn By: Sheet  
 MY 4 of 9

Drawing No.:  
**M-101.00**

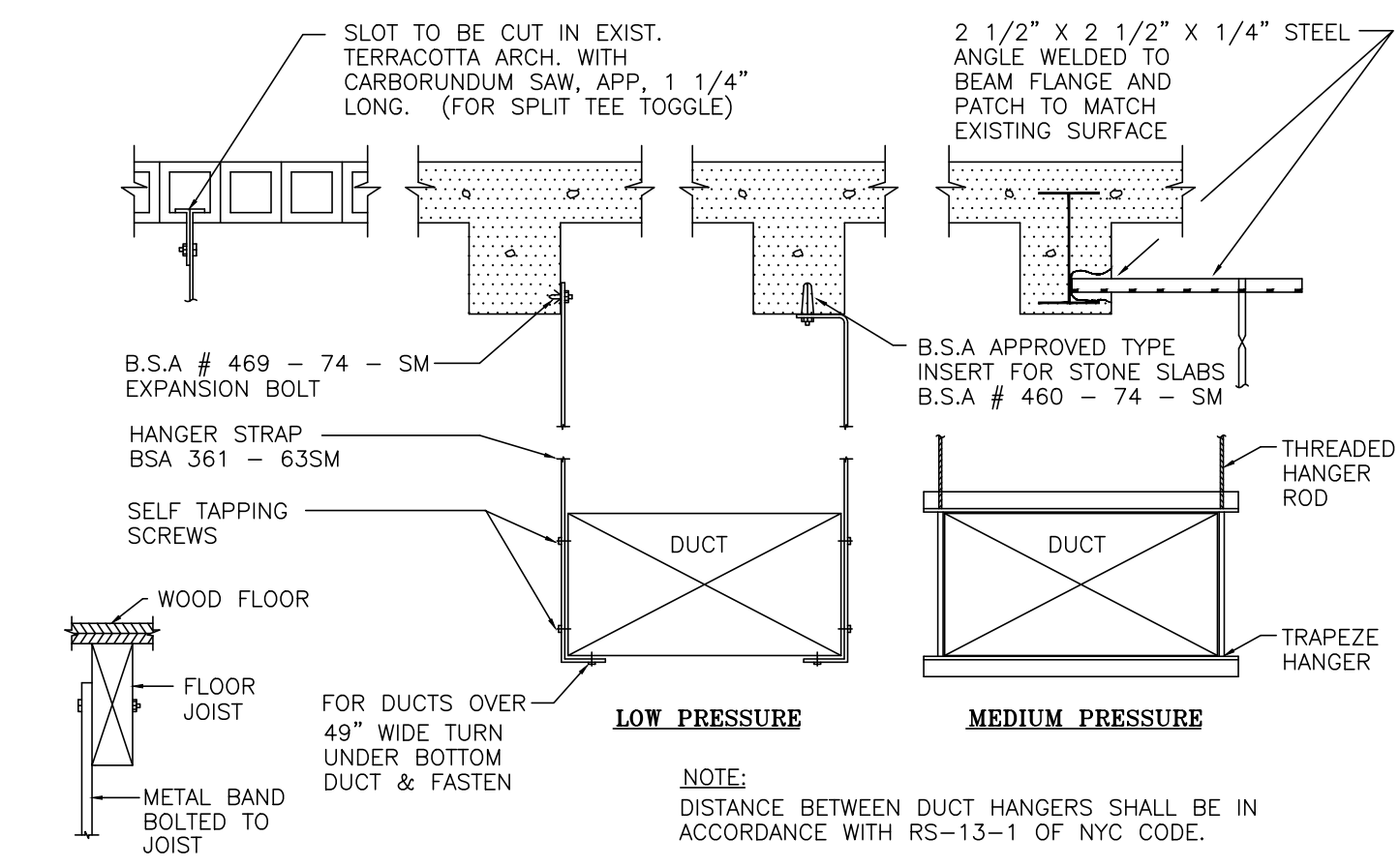


**RECTANGULAR DUCT ANGULAR TAP WITH VOLUME DAMPER**

- NOTES**
1. USE FOR SYMBOL  $\perp$  WHERE BRANCH DUCT AIR QUANTITY IS LESS THAN 25% OF THE TOTAL AIR FLOW.
  2. DEPTH AT W' MUST BE AT LEAST 2" LESS THAN DEPTH AT W.



**YOUNG REGULATOR VOLUME DAMPER DETAIL**  
PROVIDE THIS DETAIL FOR ALL NON ACCESSIBLE CEILING



**METHOD OF HANGING DUCTWORK**

Rev. #	Date	Description	By
02-11-21		AS PER DOB OBJECTIONS	MY
02-19-21		AS PER DOB OBJECTIONS	MY
1	03-23-21	AS PER CHANGES TO MECHANICAL SCOPE OF WORK	MY

**Special & Progress Inspections:**  
M. JUST ARCHITECTURE, PC SHALL ONLY IDENTIFY ALL REQUIRED SPECIAL & PROGRESS INSPECTIONS AS THE DESIGN APPLICANT.

THE OWNER MUST RETAIN A CERTIFIED SPECIAL INSPECTION AGENCY PRIOR TO THE ISSUANCE OF A WORK PERMIT FOR ALL OF THE REQUIRED SPECIAL & PROGRESS INSPECTION ITEMS.

**Note:**  
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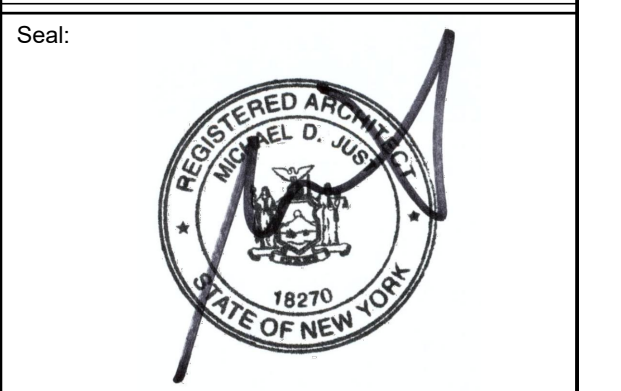
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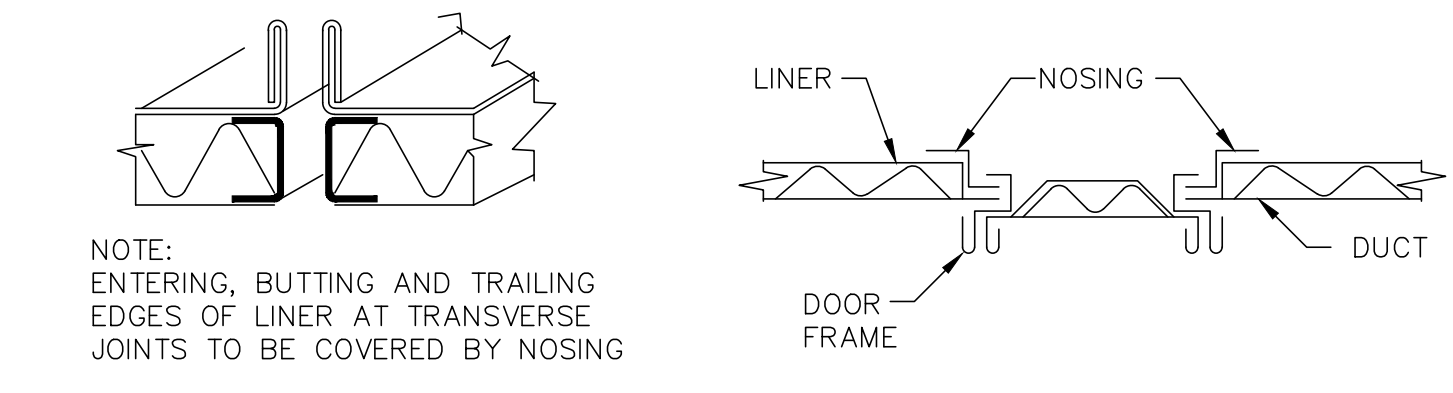


**Drawing Title:**  
HVAC DETAILS

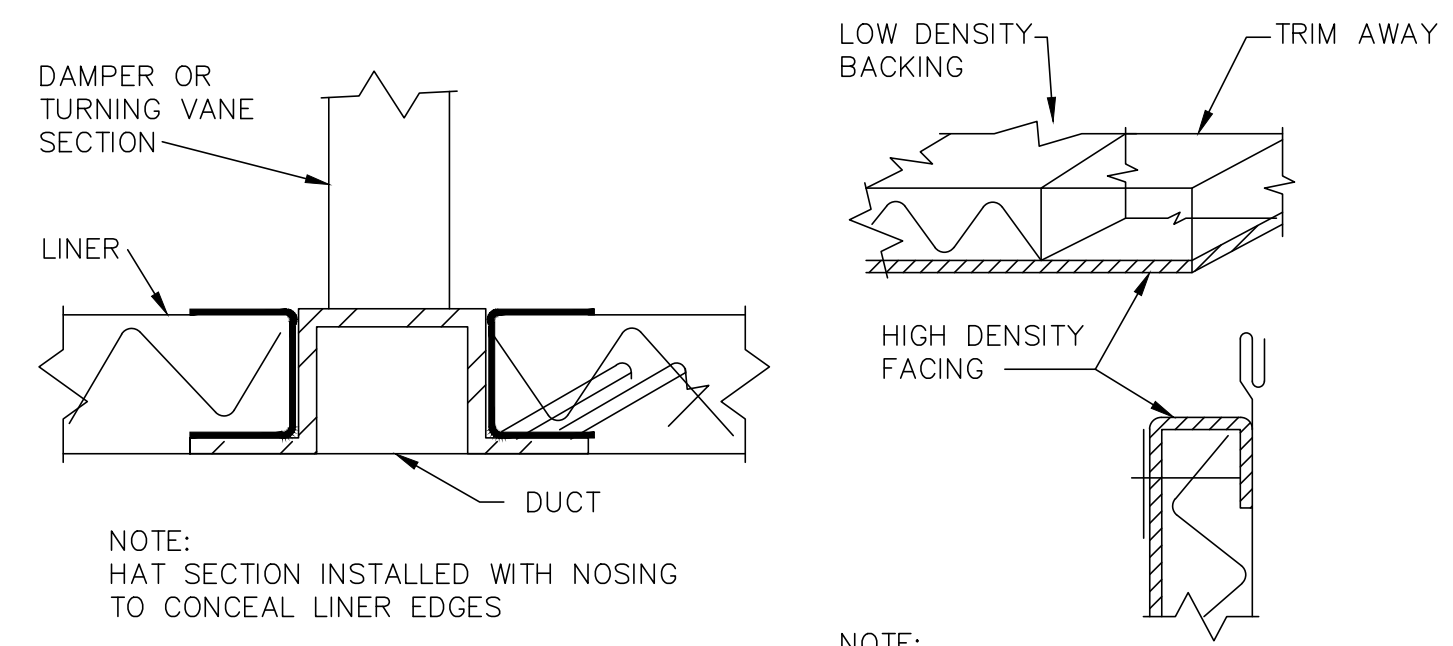
**NYCDOB APPLICATION:**  
X00433355-11

BLOCK: 4723	Job No.: 18049	Date: 02-19-21
LOT: 66	Drawn By: MY	Sheet: 5 of 9
ZONE: C2-2 in R5		
MAP: 2b		

**Drawing No.:**  
M-200.00



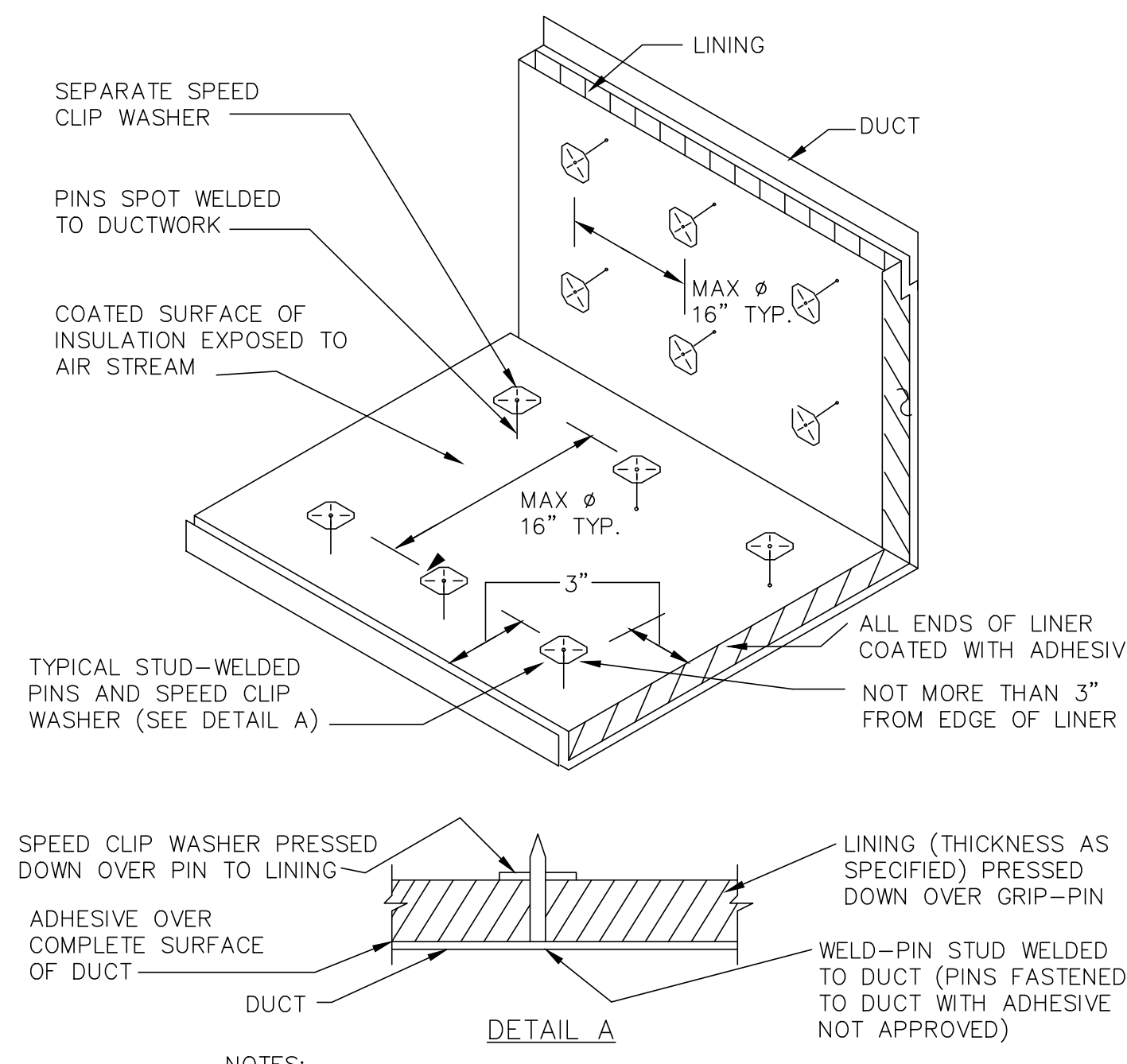
**TRANSVERSE JOINT DETAIL ACCESS DOOR NOSING DETAIL**



**DETAIL AT DAMPERS AND TURNING VANES LONGITUDINAL JOINT DETAIL**

- GENERAL NOTES:**
1. NOSING ATTACHED TO DUCT BY RIVETS, SCREWS OR WELDS.
  2. NOSING : 24 GA. UP TO 48"; OVER 48", SAME GA. AS DUCT.

**SOUND LINING NOSING DETAIL**  
NO SCALE DTL-107



- NOTES:**
1. FOR NOSING, JOINT AND DETAILS AT DAMPERS AND TURNING VANES, SEE SOUND LINING NOSING DETAILS
  2. NOT LESS THAN TWO PINS ON EACH FACE OF DUCT

**SOUND LINING INSTALLATION DETAIL**  
NO SCALE DT-106

1. GENERAL

- A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" AIA DOCUMENT A201, LATEST EDITION, AND THIS SPECIFICATION AS APPLICABLE ARE PART OF THIS CONTRACT
B. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
C. INVESTIGATE EACH SPACE THROUGH WITH EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
D. DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF DUCTWORK AND PIPING TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF ARCHITECT. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED.
E. SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. INSERTS SHALL BE STEEL, SLOTTED TYPE AND FACTORY PAINTED. SINGLE ROD SHALL BE SIMILAR TO GRINNELL FIG. 281. MULTI-ROD SHALL BE SIMILAR TO FEE & MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS. MAXIMUM LOADING INCLUDING PIPES, DUCTWORK CONTENTS AND COVERING SHALL NOT EXCEED 75% OF RATED INSERT CAPABILITY. WHEN SUPPORTING FROM BUILDING USE BEAM CLAMPS IN APPROVED MANNER.
F. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
G. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN MAKING UP THE WORK PROPOSAL.
H. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING OWNER. INSTALL ISOLATION VALVES AT POINT OF CONNECTION TO THE EXISTING PIPING. PROVIDE TEMPORARY DUCT CAPS AND/OR CONNECTIONS TO MINIMIZE SHUTDOWN TIME.
I. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ARCHITECT.
J. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.
K. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
L. SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL.
M. PROVIDE ALL NECESSARY FLASHING AND COUNTER-FLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS, LOUVERS, CONDUIT, AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AND DUNNAGE STEEL AS REQUIRED.
N. ALL PRESENT MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.
O. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
P. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE PRESENT OCCUPANTS.
Q. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK IN OVERTIME AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
R. UNLESS OTHERWISE SPECIFICALLY SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
S. REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHAFTS AND WALLS FOR ALL VOLUME AND FIRE DAMPERS, VALVES, AUTOMATIC DAMPERS AND ALL OTHER MECHANICAL EQUIPMENT AND DEVICES. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES, DAMPERS AND EQUIPMENT.
T. ALL EQUIPMENT SHALL HAVE UL LIST NUMBER. THIS INFORMATION MUST BE INCLUDED IN THE SUBMITTAL PACKAGE. SPECIAL INSPECTIONS TO BE HIRED BY CONTRACTOR.
U. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
V. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING DUCTWORK, PIPING (SIZES, CLEARANCES, ETC) AND CONDITIONS.

- W. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
X. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.
Y. THIS CONTRACTOR SHALL PREPARE A LIST OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, VALVES, DAMPERS, CONTROLS, AND OTHER SIMILAR DEVICES, WHICH SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR WHO SHALL FURNISH AND INSTALL SAME AFTER COORDINATING FINAL LOCATIONS WITH ARCHITECT. ACCESS DOORS SHALL BE OF AMPLE SIZE AND MINIMUM OF 16" X 16" OR AS APPROVED.
Z. THE CONTRACTOR SHALL REMOVE, RELOCATE, REPLACE, ADJUST, ADAPT AND MODIFY EXISTING EQUIPMENT AND/OR SYSTEM AS REQUIRED BY THE DRAWINGS OR SPECIFICATIONS AND AS MAY BE REQUIRED WHEN SUCH WORK IS UNCOVERED AND FOUND TO INTERFERE WITH THE COMPLETION OF WORK IN THE CONTRACT OR OTHER CONTRACT WORK.
AA. SUPPLEMENTAL STEEL SUPPORTS FOR CEILING-MOUNTED AC UNITS SHALL BE PROVIDED BY THIS CONTRACTOR. COORDINATE WITH BUILDING OWNER, HIS STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR FOR ACCEPTABLE METHODS OF SUPPORTS. OBTAIN WRITTEN PERMIT FOR BUILDING OWNER PRIOR TO STARTING WORK.
BB. ALL DAMPERS, VALVES, AND OTHER APPARATUS REQUIRING ACCESS SHALL BE LOCATED OVER ACCESSIBLE AREAS ONLY. WHERE IT IS UNAVOIDABLE, COMPLETE ALL WORK (BALANCING, ETC.) PRIOR TO FINISHING SHEETWORK CEILING. COORDINATE WITH G.C. AS REQUIRED.
CC. SPECIFICATIONS ARE OF PHRASED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR SPLITPHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.
2. SCOPE OF WORK
A. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER.
B. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFOR. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
C. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES, BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.
E. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT PROVIDE COMPLETE SET OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, DUCTWORK, PIPING AND CONTROL SYSTEMS INDICATING CAPACITY DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.
3. SHEET METAL WORK AS PER ECCC C403.2.9.1
A. EXCEPT AS OTHERWISE SHOWN OR NOTED, ALL DUCTWORK AND OTHER SHEET METAL WORK SHALL BE GALVANIZED SHEET STEEL AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. DUCT CONSTRUCTION STANDARDS, PRESSURE CLASSIFICATION 2 IN. W.G. ALL DUCTWORK TO BE MINIMUM 24 GAUGE.
B. VOLUME DAMPERS: GALVANIZED STEEL, PER SMACNA "LOW VELOCITY MANUAL," EXCEPT PROVIDE BEARING AT ONE END OF DAMPER ROD AND QUADRANT, WITH LEVER AND LOCKSCREW AT OTHER END. FOR INSULATED DUCTS, QUADRANTS MOUNTED ON COLLAR TO CLEAR INSULATION. INSTALL WITH LEVERS ACCESSIBLE. PROVIDE AT EACH DUCT TAP AND AT EACH BRANCH TAKE-OFF FROM MAIN.
C. TURNING VANES: GALVANIZED STEEL SMALL DOUBLE-THICKNESS VANES WITH 2 IN. INSIDE RADIUS.
D. REFER TO NOISE CONTROL SECTION FOR MORE DUCTWORK REQUIREMENTS
E. ALL DUCT DIMENSIONS INDICATED ON PLANS ARE INSIDE CLEAR DIMENSIONS.
F. WIRE MESH SCREEN (WMS): NO. 16 USSG, 3/4 SQUARE MESH, IN 1 IN. WIDE GALVANIZED STEEL ENCLOSING FRAME. FLANGED DUCT OPENING TO RECEIVE FRAME. PROVIDE WIRE MESH SCREEN FOR ALL DUCT OPENING ABOVE HUNG CEILING.
4. AIR OUTLETS
A. GENERAL:
1. MARGIN TYPES, COLORS, FINISH AND METHODS OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH ARCHITECTURAL CEILING AND WALL DETAILS AND SPECIFICATIONS.
2. FRAME TYPE SUITABLE FOR MOUNTING IN CEILING OR WALL CONSTRUCTION SHALL BE OF CLIPPED TYPE. COUNTER-SUNK SCREWS SHALL NOT BE USED UNLESS OTHERWISE NOTED ON ARCHITECTURAL PLANS.
3. EXACT LOCATION OF ALL AIR OUTLETS AS PER ARCHITECTURAL PLANS.
4. SUITABLE FOR OPERATION AT 20% EXCESS AND 20% LESS THAN NOTED CAPACITY FOR CONSTANT VOLUME SYSTEMS AND AT 25% EXCESS AND 60% LESS THAN NOTED CAPACITY FOR VARIABLE VOLUME SYSTEMS. MANUFACTURER RESPONSIBLE FOR EXAMINING APPLICATION OF EACH OUTLET AND GUARANTEE THAT EACH WILL PROVIDE REQUIRED NC LEVELS AND COMFORT SPACE CONDITIONS WITHOUT DRAFTS THROUGHOUT OPERATING RANGE.
5. ALL REGISTERS AND DIFFUSERS SHALL BE PROVIDED WITH OPPOSED

- BLADE VOLUME DAMPERS. DAMPER OPERATING LEVERS SHALL BE ACCESSIBLE AT THE FACE OF AIR OUTLETS.
6. MANUFACTURERS: ANEMOSTAT, OR APPROVED EQUAL.
B. SEE HVAC SCHEDULE FOR ADDITIONAL SPECIFICATIONS.
5. NOISE CONTROL
A. ACOUSTICAL CRITERIA:
1. NOISE LEVELS DUE TO EQUIPMENT AND DUCTWORK SHALL PERMIT ATTAINING SOUND PRESSURE LEVELS IN ALL 8 OCTAVE BANDS IN UNOCCUPIED SPACES CONFORMING TO NC CURVES AS FOLLOWS:
ALL SPACES NC-28
B. PROVIDE MINIMUM OF 1.5" THICK SOUNDLINING FOR THE FOLLOWING DUCTWORK:
1. SUPPLY AND RETURN DUCTWORK WITHIN 15' FROM THE FAN EXCEPT RTU-2
2. AIR TRANSFER DUCTS.
C. SOUNDLINING IN DUCTWORK: FIBROUS GLASS, MINIMUM 3 LB DENSITY, 1.5 IN. THICKNESS, MAXIMUM 0.25 K FACTOR AT 75F MEAN TEMPERATURE WITH ACRYLIC COATED FINISH FACTORY APPLIED EDGE COATING AND STENCILED IN ACCORDANCE WITH NFPA 90. FLAMESPREAD SHALL BE A MAXIMUM OF 25. LINING SHALL NOT SUPPORT MICROBIAL GROWTH AND SHALL BE TESTED IN ACCORDANCE WITH ASTM C 1071 AND ASTM G21/G22. SIMILAR TO MANVILLE PERMACOTE LINACOUSSTIC RC WITH R-VALUE OF 6.3.
D. ALL SOUNDLINING, ADHESIVES, FACES AND ACCESSORIES TO BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, EXCEPT AS OTHERWISE NOTED.
6. TESTING AND BALANCING AS PER ECC C408.22
A. AIR BALANCING SHALL BE ACCOMPLISHED BY ADJUSTMENT OF FANS AND BRANCH DAMPERS FOR MAJOR ADJUSTMENTS. ADJUSTMENT OF TERMINAL DAMPERS AND DEVICES SHALL BE FOR TRIM OR MINOR ADJUSTMENT ONLY. THIS SHALL BE DONE TO PERMIT THE LEAST NOISE GENERATION IN THE TERMINAL AREAS AND UTILIZE MINIMUM FAN ENERGY.
C. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL REBALANCE ANY EXISTING PORTIONS OF AIR DISTRIBUTION SYSTEM AND WATER DISTRIBUTION SYSTEM AFFECTED BY THE RENOVATION AND ALSO BALANCE ALL NEW WORK.
D. THE CONTRACTOR SHALL PROVIDE ALL LABOR, PRESSURE GAUGES, FLOW METERS, SHEAVES, AND BELTS REQUIRED TO BALANCE SYSTEMS.
E. BALANCING REPORT SHALL BE PROVIDED ON AABC-TYPE FORMS.
F. FANS, AIR HANDLING UNITS, PUMPS, AND COILS SHALL BE BALANCED TO WITHIN +/-5% OF THEIR DESIGN CAPACITIES. ALL OTHER AIR AND WATER QUANTITIES SHALL BE BALANCED TO WITHIN +/-10% OF THE DESIGN QUANTITIES.
G. BALANCING AND TESTING SHALL BE PERFORMED AND SUPERVISED BY ONE OF THE FOLLOWING INDEPENDENT FIRMS SPECIALIZING IN TESTING AND BALANCING:
1. INDEPENDENCE TESTING AND BALANCING, INC.
2. INTERNATIONAL TESTING AND BALANCING CORP.
3. ALL CITY TESTING AND BALANCING CORP.
H. THE PERFORMANCE AND CAPACITY OF ALL SYSTEMS AND EQUIPMENT TO BE DEMONSTRATED BY THE CONTRACTOR.
7. SHOP DRAWINGS
A. INDICATE ON EACH SUBMISSION: PROJECT NAME AND LOCATION, ARCHITECT AND ENGINEER, ITEM IDENTIFICATION AND APPROVAL STAMP OF PRIME CONTRACTOR.
B. SUBMISSIONS:
1. SUBMISSIONS 11 IN. X 17 IN. OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT ONE ORIGINAL AND TWO COPIES. OTHERWISE, HE SHALL SUBMIT THREE COPIES. THE ARCHITECT WILL FORWARD THE ORIGINAL AND ONE COPY (TWO COPIES WHEN NO ORIGINAL IS RECEIVED) TO THE ENGINEER. ALL CATALOG CUTS SHALL BE COMPLETE.
2. SUBMISSIONS LARGER THAN 11 IN. X 17 IN.: SUBMIT TWO PRINTS AND ONE PAPER SEPIA TO THE ARCHITECT. THE ARCHITECT WILL FORWARD ONE PRINT AND THE PAPER SEPIA TO THE ENGINEER.
3. SUBMIT SAMPLES WHERE NOTED.
C. SUBMIT SHOP DRAWINGS AND SAMPLES FOR THE FOLLOWING:
1. DUCTWORK LAYOUT AND SHEET METAL SHOP STANDARDS.
2. AIR OUTLETS.
3. AIR BALANCING REPORT.
4. OPERATING SEQUENCES AND CONTROL WIRING DIAGRAM.
D. AS-BUILTS AND EQUIPMENT OPERATION INSTRUCTIONS
1. ON COMPLETION AND ACCEPTANCE OF WORK, THIS CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS, EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.
2. THESE INSTRUCTIONS SHALL BE TYPED ON 8-1/2 IN. X 11 IN. PAPER AND BOUND IN THREE-RING BINDERS WITH CLEAR ACETATE COVERS. THE CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE COPY TO THE ENGINEER.
3. THE INSTRUCTION BOOKLET SHALL BE ORGANIZED IN SECTIONS, WITH ONE SECTION PER SYSTEM. THE COVER OF THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND PHONE NUMBER OF THE PROJECT, ARCHITECT, ENGINEER, MECHANICAL CONTRACTOR AND SUBCONTRACTORS.
4. REPRODUCIBLE "AS-BUILT" DRAWINGS INDICATING AS INSTALLED CONDITIONS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.
E. EQUIPMENT SUBSTITUTIONS:
1. IF THE CONTRACTOR ELECTS TO PROPOSE EQUIPMENT SUBSTITUTIONS, THEY SHALL BE SUBMITTED IN ADVANCE AND SHALL INCLUDE A COMPLETE DETAILED LIST INDICATING ALL DEVIATIONS ITEM BY ITEM.
2. SUBMISSIONS SHALL INCLUDE A LIST OF LOCAL INSTALLATIONS NOT LESS THAN FIVE YEARS. SUBMISSIONS WILL BE AUTOMATICALLY REJECTED WITHOUT REVIEW IF REQUIRED INFORMATION IS NOT SUBMITTED.
3. IT SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY DEMONSTRATE TO THE ENGINEER'S SATISFACTION THAT THE

- SUBSTITUTION IS EQUIVALENT OR BETTER. THE ENGINEER'S APPROVAL OR DISAPPROVAL SHALL BE FINAL.
4. ANY ADDITIONAL COST INCURRED AS A RESULT OF AN EQUIPMENT SUBSTITUTION BY THIS CONTRACTOR, SUCH AS AN INCREASE IN SCOPE OF WORK FOR ANOTHER CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
8. INSULATION - GENERAL REQUIREMENTS
A. ALL INSULATION MATERIALS, INCLUDING JACKETS, FACING, ADHESIVE, COATINGS, AND ACCESSORIES ARE TO BE FIRE HAZARD RATED AND LISTED BY UNDERWRITERS LABORATORIES, INC. USING STEINER TUNNEL TEST METHOD FOR FIRE HAZARD CLASSIFICATION OF BUILDING MATERIALS, STANDARD UL 723 (ASTM E-84), (ASA A2.5-1963). FLAMESPREAD: MAXIMUM 25. FUEL CONTRIBUTED AND SMOKE DEVELOPED: MAXIMUM 50. FLAMEPROOFING TREATMENTS SUBJECT TO DETEIORATION FROM MOISTURE OR HUMIDITY ARE NOT ACCEPTABLE.
B. DEFINITIONS:
1. EXPOSED: INDOOR DUCTS, PIPING OR EQUIPMENT LOCATED IN MECHANICAL EQUIPMENT ROOMS AND IN AREAS WHICH WILL BE VISIBLE WITHOUT REMOVING CEILINGS OR OPENING ACCESS PANELS.
2. CONCEALED: INDOOR DUCTS, PIPING OR EQUIPMENT WHICH IS NOT EXPOSED.
9. DUCTWORK INSULATION AS PER ECC C403.2.9
A. INSULATE ALL DUCTWORK IN ACCORDANCE WITH INSULATION SCHEDULE EXCEPT AS OTHERWISE NOTED.
INSULATION SCHEDULE - DUCTWORK
1. SUPPLY AND RETURN: 1.5" FIBERGLASS - TYPE D-1
B. REINSULATE ALL DUCTWORK AND PIPING WHICH IS DAMAGED DURING CONSTRUCTION.
C. NON-INSULATED DUCTWORK:
1. WHERE SOUNDLINING IS OF MINIMUM THICKNESS SPECIFIED FOR INSULATION.
D. MATERIAL:
1. TYPE D-1: MINIMUM 1-LB DENSITY FIBERGLASS BLANKET, MAXIMUM 0.28 K-FACTOR AT 75F MEAN TEMPERATURE WITH FACTORY-APPLIED FOIL-SKIRTKRAFT FACING SIMILAR TO MANVILLE MICROLITE PSK FACED 2" THICKNESS WITH R VALUE OF 6.
2. TYPE D-2: 3 LB. FIBERGLASS BOARD. THE MAXIMUM K FACTOR SHALL BE 0.23 AT 75F MEAN TEMPERATURE WITH A MINIMUM DENSITY OF 3 LB. THE INSULATION SHALL BE PROVIDED WITH A FACTORY-APPLIED ALL PURPOSE OR ALL SERVICE FACING. THE INSULATION SHALL BE EQUAL TO MANVILLE TYPE 814 SPIN-GLAS AP 2" THICKNESS WITH R VALUE OF 9.09
E. INSTALLATION:
1. FIBERGLASS BLANKET: 2 IN. LAP STRIPS AT ALL SEAMS. SECURE BOTTOM OF ALL DUCTS OVER 24 IN. WIDE WITH MIN. 2 ROWS OF WELD PINS 12 IN. ON CENTER. SECURE ALL SEAMS WITH FOIL VAPOR BARRIER TAPE AND VAPORSEAL ADHESIVE.
13. AUTOMATIC CONTROLS - GENERAL REQUIREMENTS
A. FURNISH AND INSTALL A COMPLETE ELECTRIC OR ELECTRONIC CONTROL SYSTEM TO PROVIDE TEMPERATURE CONTROL AS SPECIFIED UNDER DESCRIPTION OF OPERATION.
B. WORK SHALL INCLUDE ALL WIRING, CONTROL EQUIPMENT, TRANSFORMERS AND ACCESSORIES NECESSARY TO MAKE THIS SYSTEM COMPLETE. ALL WIRING SHALL BE 24 VOLT. COORDINATE WITH MANUFACTURER FOR INTERCONNECTION WITH CONTROLS INCLUDED IN EQUIPMENT. ALL CONTROL WORK SHALL BE INSTALLED BY HVAC CONTRACTOR.
C. OPERATION OF TYPICAL CONTROL SAFETY DEVICES.
1. HOA SUPPLY FAN SWITCHES: SAFETY DEVICES SHALL BE INTERLOCKED WITH "HAND" AND "AUTOMATIC" POSITIONS IN SERIES WITH MOTOR CONTROLLER HOLDING COIL CIRCUIT. INTERLOCKING WITH OTHER FANS AND EQUIPMENT OF SYSTEM SHALL BE THROUGH "AUTOMATIC" POSITION ONLY. "HAND" POSITION SHALL BE FOR MAINTENANCE ONLY.
2. RETURN FAN, TRANSFER FAN, EXHAUST FAN HOA SWITCHES (INTERLOCKED WITH SUPPLY FANS): REMOTE STARTING SHALL BE FROM SUPPLY FAN THROUGH "AUTOMATIC" POSITION ONLY. "HAND" POSITION SHALL BE FOR MAINTENANCE OPERATION ONLY. INTERLOCK THROUGH AUXILIARY CONTACT OF LEAD EQUIPMENT MOTOR CONTROLLER.
3. EXHAUST FANS, SUCH AS GENERAL OR TOILET (OPERATING INDEPENDENTLY): ALL SAFETY DEVICES SHALL BE INTERLOCKED WITH "HAND" AND "AUTOMATIC" POSITIONS IN SERIES WITH MOTOR CONTROLLER HOLDING COIL CIRCUIT. REMOTE STARTING SHALL BE THROUGH AUTOMATIC POSITION ONLY. "HAND" POSITION SHALL BE FOR MAINTENANCE OPERATION ONLY.
4. SAFETY DEVICES FOR ALL SYSTEMS, EXCEPT AS OTHERWISE NOTED BELOW:
a. FOR SYSTEMS OVER 2,000 CFM, A DUCT MOUNTED SMOKE DETECTOR OF THE IONIZATION TYPE LOCATED IN THE SUPPLY DUCT SHALL STOP THE SUPPLY FAN AND ASSOCIATED INTERLOCKED EQUIPMENT SHOULD PRODUCTS OF COMBUSTION BE SENSED.
b. DAMPER END SWITCHES SHALL PREVENT OPERATION OF FANS UNTIL DAMPER IS FULLY OPEN. PROVIDE RELAYS SO IT WILL NOT BE NECESSARY TO HOLD START BUTTON UNTIL DAMPER IS FULLY OPEN. PROVIDE DAMPER END SWITCHES ON ALL AUTOMATIC DAMPERS.
14. AUTOMATIC CONTROLS - SEQUENCE OF OPERATIONS:
A. EXISTING RTU - MAINTAIN THE SAME SEQUENCE OF OPERATION.

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JUST ARCHITECTURE
572 Henry Street - Brooklyn, New York 11231
Rev. # Date: Description: By:
02-11-21 AS PER DOB OBJECTIONS MY
02-19-21 AS PER DOB OBJECTIONS MY
1 03-23-21 AS PER CHANGES TO MECHANICAL SCOPE OF WORK MY
Special & Progress Inspections: M. JUST ARCHITECTURE, PC SHALL ONLY IDENTIFY ALL REQUIRED SPECIAL & PROGRESS INSPECTIONS AS THE DESIGN APPLICANT.
THE OWNER MUST RETAIN A CERTIFIED SPECIAL INSPECTION AGENCY PRIOR TO THE ISSUANCE OF A WORK PERMIT FOR ALL OF THE REQUIRED SPECIAL & PROGRESS INSPECTION ITEMS.
Note: THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
New York Alteration Warning Statement: IT IS A VIOLATION OF NEW YORK REGULATION 69.56) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY WITHOUT AFFIXING TO THE ITEM HIS SEAL AND THE NOTIFICATION "ALTERED BY," FOLLOWED BY A SIGNATURE, DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION
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Client: Jay DellaMonica Creative Food Corp 200 Garden City Plaza Garden City, NY 11530
DOB Approval Stamps:
Project Address: 3500 Boston Post Road Bronx, NY 10803
Seal:
Drawing Title: HVAC SPECIFICATIONS
NYCDOB APPLICATION: X00433355-11
BLOCK: 4723 LOT: 66 ZONE: C2-2 in R5 MAP: 2b Job No.: 18049 Drawn By: MY Date: 02-19-21 Sheet: 6 of 9
M-300.00







**ENERGY COMPLIANCE STATEMENT**

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY, USING CHAPTER C4.

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**TABULAR ANALYSIS**

CLIMATE ZONE: 4A AS PER TABLE C301.1  
COMMERCIAL BUILDING

WORK ITEMS INCLUDING NEW AND/OR REPLACEMENT	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE AND CITATION	SUPPORTING DOCUMENTATION
<b>BUILDING ENVELOPE REQUIREMENTS AS PER SECTION C402:</b>			
<i>NOT AFFECTED UNDER THIS APPLICATION</i>			
<b>BUILDING MECHANICAL SYSTEMS REQUIREMENTS AS PER SECTION C403:</b>			
<b>CALCULATION OF HEATING AND COOLING LOADS:</b> REPLACED HVAC UNITS	DESIGN LOADS DETERMINED IN ACCORDANCE WITH ANSI/ASHRAE/ACCA STANDARD 183.	AS PER SECTION C403.1.1 CALCULATION OF HEATING AND COOLING LOADS - DESIGN LOADS ASSOCIATED WITH HEATING, VENTILATING AND AIR CONDITIONING OF THE BUILDING SHALL BE DETERMINED IN ACCORDANCE WITH ANSI/ASHRAE/ACCA STANDARD 183 OR BY AN APPROVED EQUIVALENT COMPUTATIONAL PROCEDURE USING THE DESIGN PARAMETERS SPECIFIED IN CHAPTER C3. HEATING AND COOLING LOADS SHALL BE ADJUSTED TO ACCOUNT FOR LOAD REDUCTIONS THAT ARE ACHIEVED WHERE ENERGY RECOVERY SYSTEMS ARE UTILIZED IN THE HVAC SYSTEM IN ACCORDANCE WITH THE ASHRAE HVAC SYSTEMS AND EQUIPMENT HANDBOOK BY AN APPROVED EQUIVALENT COMPUTATIONAL PROCEDURE.	SEE NOTES ON M-100.
<b>EQUIPMENT SIZING:</b> REPLACED HVAC UNITS	SPECIFIED EQUIPMENT SIZED WITHIN LOAD CALCULATION LIMITS	AS PER SECTION C403.3.1 EQUIPMENT SIZING - THE OUTPUT CAPACITY OF HEATING AND COOLING EQUIPMENT SHALL BE NOT GREATER THAN THAT OF THE SMALLEST AVAILABLE EQUIPMENT SIZE THAT EXCEEDS THE LOADS CALCULATED IN ACCORDANCE WITH SECTION C403.1.1. A SINGLE PIECE OF EQUIPMENT PROVIDING BOTH HEATING AND COOLING SHALL SATISFY THIS PROVISION FOR ONE FUNCTION WITH THE CAPACITY FOR THE OTHER FUNCTION AS SMALL AS POSSIBLE, WITHIN AVAILABLE EQUIPMENT OPTIONS.	SEE NOTES ON M-100.
<b>ELECTRICALLY OPERATED UNITARY AIR CONDITIONERS &amp; CONDENSING UNITS:</b> REPLACED RTU-1 COOLING CAPACITY: 58,500 BTU/HR	14.1 SEER AS PER TEST PROCEDURE AHRI 210/360	AS PER TABLE C403.3.2(1) OF THE 2020 NYCECC - AIR CONDITIONERS, AIR COOLED <65,000 BTU/HR, ALL OTHER HEATING SECTION TYPE, SINGLE PACKAGE SHALL HAVE A MINIMUM EFFICIENCY OF 13.0 SEER AS PER TEST PROCEDURE AHRI 210/240.	SEE NOTES ON M-100.
<b>WARM-AIR FURNACES &amp; COMBINATION WARM-AIR FURNACES/AIR CONDITIONING UNITS:</b> REPLACED RTU-1 HEATING CAPACITY: 130,000 BTU/HR	81% THERMAL EFFICIENCY AS PER TEST PROCEDURE ANSI Z21.47	AS PER TABLE C403.3.2(4) OF THE 2020 NYCECC - WARM-AIR FURNACES, GAS-FIRED, <225,000 BTU/HR, MAXIMUM CAPACITY SHALL HAVE A MINIMUM EFFICIENCY OF 80% AFUE OR 80% THERMAL EFFICIENCY AS PER TEST PROCEDURE DOE 10 CFR PART 430 OR SECTION 2.39 THERMAL EFFICIENCY, ANSI Z21.47.	SEE NOTES ON M-100.
<b>ELECTRICALLY OPERATED UNITARY AIR CONDITIONERS &amp; CONDENSING UNITS:</b> REPLACED RTU-2 COOLING CAPACITY: 83,000 BTU/HR	12.8 IEER AS PER TEST PROCEDURE AHRI 340/360	AS PER TABLE C403.3.2(1) OF THE 2020 NYCECC - AIR CONDITIONERS, AIR COOLED >=135,000 BTU/HR AND <240,000 BTU/HR, ALL OTHER HEATING SECTION TYPE, SINGLE PACKAGE SHALL HAVE A MINIMUM EFFICIENCY OF 12.2 IEER AS PER TEST PROCEDURE AHRI 340/360.	SEE NOTES ON M-100.
<b>WARM-AIR FURNACES &amp; COMBINATION WARM-AIR FURNACES/AIR CONDITIONING UNITS:</b> REPLACED RTU-2 HEATING CAPACITY: 180,000 BTU/HR	82% THERMAL EFFICIENCY AS PER TEST PROCEDURE ANSI Z21.47	AS PER TABLE C403.3.2(4) OF THE 2020 NYCECC - WARM-AIR FURNACES, GAS-FIRED, <225,000 BTU/HR, MAXIMUM CAPACITY SHALL HAVE A MINIMUM EFFICIENCY OF 80% AFUE OR 80% THERMAL EFFICIENCY AS PER TEST PROCEDURE DOE 10 CFR PART 430 OR SECTION 2.39 THERMAL EFFICIENCY, ANSI Z21.47.	SEE NOTES ON M-100.
<b>ELECTRICALLY OPERATED UNITARY AIR CONDITIONERS &amp; CONDENSING UNITS:</b> REPLACED RTU-4 COOLING CAPACITY: 114,000 BTU/HR	12.8 IEER AS PER TEST PROCEDURE AHRI 340/360	AS PER TABLE C403.3.2(1) OF THE 2020 NYCECC - AIR CONDITIONERS, AIR COOLED >=135,000 BTU/HR AND <240,000 BTU/HR, ALL OTHER HEATING SECTION TYPE, SINGLE PACKAGE SHALL HAVE A MINIMUM EFFICIENCY OF 12.2 IEER AS PER TEST PROCEDURE AHRI 340/360.	SEE NOTES ON M-100.
<b>WARM-AIR FURNACES &amp; COMBINATION WARM-AIR FURNACES/AIR CONDITIONING UNITS:</b> REPLACED RTU-4 HEATING CAPACITY: 224,000 BTU/HR	82% THERMAL EFFICIENCY AS PER TEST PROCEDURE ANSI Z21.47	AS PER TABLE C403.3.2(4) OF THE 2020 NYCECC - WARM-AIR FURNACES, GAS-FIRED, <225,000 BTU/HR, MAXIMUM CAPACITY SHALL HAVE A MINIMUM EFFICIENCY OF 80% AFUE OR 80% THERMAL EFFICIENCY AS PER TEST PROCEDURE DOE 10 CFR PART 430 OR SECTION 2.39 THERMAL EFFICIENCY, ANSI Z21.47.	SEE NOTES ON M-100.
<b>THERMOSTATIC CONTROLS:</b> THERMOSTATS FOR REPLACED HVAC UNIT	ONE THERMOSTAT IS PROVIDED FOR EACH ZONE	AS PER SECTION C403.4.1 THERMOSTATIC CONTROLS - THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE. WHERE HUMIDIFICATION OR DEHUMIDIFICATION OR BOTH IS PROVIDED, NOT FEWER THAN ONE HUMIDITY CONTROL DEVICE SHALL BE PROVIDED FOR EACH HUMIDITY CONTROL SYSTEM.	SEE NOTES ON M-100.
<b>OFF-HOUR CONTROLS:</b> ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET THE REQUIREMENTS	AS PER SECTION C403.4.2 OFF-HOUR CONTROLS - EACH ZONE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM.	SEE NOTES ON M-100.
<b>THERMOSTATIC SETBACK:</b> ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET THE REQUIREMENTS	AS PER SECTION C403.4.2.1 THERMOSTATIC SETBACK - THERMOSTATIC SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55°F (13°C) OR UP TO 85°F (29°C).	SEE NOTES ON M-100.
<b>AUTOMATIC SETBACK AND SHUTDOWN:</b> ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET THE REQUIREMENTS	AS PER SECTION C403.4.2.2 AUTOMATIC SETBACK AND SHUTDOWN - AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS; OR AN OCCUPANCY SENSOR.	SEE NOTES ON M-100.
<b>AUTOMATIC START:</b> ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET THE REQUIREMENTS	AS PER SECTION C403.4.2.3 AUTOMATIC START - AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM. THE CONTROLS SHALL BE CONFIGURED TO AUTOMATICALLY ADJUST THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.	SEE NOTES ON M-100.
<b>ECONOMIZERS:</b> REPLACED HVAC	ECONOMIZERS SHALL BE PROVIDED FOR THE REPLACED HVAC UNIT AS PER THE REQUIREMENTS OF THE CODE.	AS PER SECTION C403.5 ECONOMIZERS - ECONOMIZERS SHALL COMPLY WITH SECTIONS C403.5.1 THROUGH C403.5.5. AN AIR OR WATER ECONOMIZER SHALL BE PROVIDED FOR THE FOLLOWING COOLING SYSTEMS: 1. CHILLED WATER SYSTEMS WITH A TOTAL COOLING CAPACITY, LESS COOLING CAPACITY PROVIDED WITH AIR ECONOMIZERS, AS SPECIFIED IN TABLE C403.5(1). 2. INDIVIDUAL FAN SYSTEMS WITH COOLING CAPACITY GREATER THAN OR EQUAL TO 54,000 BTU/H (15.8 KW) SERVING OTHER THAN GROUP R OCCUPANCIES. THE TOTAL SUPPLY CAPACITY OF ALL FAN COOLING UNITS SERVING OTHER THAN GROUP R OCCUPANCIES NOT PROVIDED WITH ECONOMIZERS SHALL NOT EXCEED 20 PERCENT OF THE TOTAL SUPPLY CAPACITY OF ALL FAN COOLING UNITS SERVING OTHER THAN GROUP R OCCUPANCIES OR 300,000 BTU/H (88 KW), WHICHEVER IS GREATER. 3. INDIVIDUAL FAN SYSTEMS WITH COOLING CAPACITY GREATER THAN OR EQUAL TO 270,000 BTU/H (79.1 KW) SERVING GROUP R OCCUPANCIES. THE TOTAL SUPPLY CAPACITY OF ALL FAN COOLING UNITS SERVING GROUP R OCCUPANCIES NOT PROVIDED WITH ECONOMIZERS SHALL NOT EXCEED 20 PERCENT OF THE TOTAL SUPPLY CAPACITY OF ALL FAN COOLING UNITS SERVING GROUP R OCCUPANCIES OR 1,500,000 BTU/H (440 KW), WHICHEVER IS GREATER.	SEE NOTES ON M-100.
<b>DUCT AND PLENUM INSULATION AND SEALING:</b> DUCT SEALING	SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED TO MEET THE REQUIREMENTS OF THE CODE.	AS PER SECTION C403.11.1 DUCT AND PLENUM INSULATION AND SEALING - SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH NOT LESS THAN R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH NOT LESS THAN R-8 INSULATION IN CLIMATE ZONES 1 THROUGH 4 AND NOT LESS THAN R-12 INSULATION IN CLIMATE ZONES 5 THROUGH 8. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY NOT LESS THAN R-8 INSULATION IN CLIMATE ZONES 1 THROUGH 4 AND NOT LESS THAN R-12 INSULATION IN CLIMATE ZONES 5 THROUGH 8.	SEE NOTES ON M-100.
<b>PIPING INSULATION:</b> INSULATION FOR PIPING	ALL PIPING SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE C403.11.3	AS PER SECTION C403.11.3 PIPING INSULATION - PIPING SERVING AS PART OF A HEATING OR COOLING SYSTEM SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE C403.11.3.	SEE NOTES ON M-100.
<b>PROTECTION OF PIPING INSULATION:</b> PROTECTION FOR EXTERIOR PIPING	ALL EXTERIOR PIPING SHALL BE PROTECTED TO MEET THE REQUIREMENTS OF THE CODE.	AS PER SECTION C403.11.3.1 PROTECTION OF PIPING INSULATION - PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE PERMITTED.	SEE NOTES ON M-100.
<b>SERVICE WATER HEATING REQUIREMENTS AS PER SECTION C404:</b>			
<i>NOT AFFECTED UNDER THIS APPLICATION</i>			
<b>ELECTRICAL POWER AND LIGHTING SYSTEMS REQUIREMENTS AS PER SECTION C405:</b>			
<i>NOT AFFECTED UNDER THIS APPLICATION</i>			
<b>MAINTENANCE INFORMATION AND SYSTEM COMMISSIONING AS PER SECTION C408:</b>			
<b>MAINTENANCE INFORMATION:</b> FOR NEW MECHANICAL UNITS	MAINTENANCE INSTRUCTIONS SHALL BE FURNISHED AS REQUIRED BY SECTION C408	AS PER SECTION C408 OF THE 2020 NYCECC - THE BUILDING OPERATIONS AND MAINTENANCE DOCUMENTS SHALL BE PROVIDED TO THE OWNER AND SHALL CONSIST OF MANUFACTURERS' INFORMATION, SPECIFICATIONS AND RECOMMENDATIONS; PROGRAMMING PROCEDURES AND DATA POINTS; NARRATIVES; AND OTHER MEANS OF ILLUSTRATING TO THE OWNER HOW THE BUILDING, EQUIPMENT AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED AND OPERATED. REQUIRED REGULAR MAINTENANCE ACTIONS FOR EQUIPMENT AND SYSTEMS SHALL BE CLEARLY STATED ON A READILY VISIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT.	SEE NOTES ON M-100

Rev. #	Date:	Description:	By:
	02-11-21	AS PER DOB OBJECTIONS	MY
	02-19-21	AS PER DOB OBJECTIONS	MY
1	03-23-21	AS PER CHANGES TO MECHANICAL SCOPE OF WORK	MY

Special & Progress Inspections:  
M. JUST ARCHITECTURE, P.C. SHALL ONLY IDENTIFY ALL REQUIRED SPECIAL & PROGRESS INSPECTIONS AS THE DESIGN APPLICANT.

THE OWNER MUST RETAIN A CERTIFIED SPECIAL INSPECTION AGENCY PRIOR TO THE ISSUANCE OF A WORK PERMIT FOR ALL OF THE REQUIRED SPECIAL & PROGRESS INSPECTION ITEMS.

Note:  
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Drawing Title:  
**TABULAR ANALYSIS**

NYCDOB APPLICATION:  
**X00433355-11**

BLOCK: 4723	Job No.: 18049	Date: 02-19-21
LOT: 66	Drawn By: 2b	Sheet: 9 of 9
ZONE: C2-2 in R5	MAP: MY	

Drawing No.:  
**EN-003.00**