GENERAL NOTES

ALL NOTES INCLUDED HEREIN ARE MADE PART OF EACH AND ALL MECHANICAL, ELECTRICAL AND PLUMBING SECTIONS OF WORK.

1. REFER TO LANDLORD'S SPECIFICATIONS AND TENANT DESIGN CRITERIA FOR NECESSARY INFORMATION AND COORDINATION WITH OTHER TRADES.
2. THE ABBREVIATION ESD&C WHEREVER IT APPEARS IN THE DRAWINGS, SHALL REFER TO "EXPRESS STORE DESIGN AND CONSTRUCTION" -ANY REFERENCE TO TENANT, BRAND SPECIFIC (EXPRESS, ETC.) OR FURNISHED BY ANY OF THE ABOVE REFERS TO ESD&C.
3. ANY DISCREPANCY BETWEEN ESD&C DRAWINGS AND TENANT CRITERIA, ESD&C DRAWINGS SHALL TAKE PRECEDENCE.
4. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT ALL INSTALLED ITEMS AND LOCATIONS ARE NOT EXACTLY PLACED AND ARE NOT TO BE SCALED.
5. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELATED PERMITS AND INSPECTION FEES.
6. BEFORE COMMENCING ANY WORK, CONTRACTORS SHALL REVIEW THE LATEST NATIONAL, STATE AND LOCAL CODE REQUIREMENTS INCLUDING LANDLORD CRITERIA AND PERFORM THE WORK IN STRICT ACCORDANCE WITH THESE. IN CASE OF CONFLICT THE STRICTER REQUIREMENTS WILL PREVAIL.
7. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR ANY CHANGE ORDERS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID.

   A CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. FOR THE PURPOSE OF SURVEYING EXISTING CONDITIONS, WHICH MAY AFFECT THE WORK TO BE DONE UNDER THIS SECTION, ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE GENERAL CONTRACTOR, ESD&C OR THE LANDLORD'S FIELD REPRESENTATIVE FOR CLARIFICATION.

   B AFTER BID, ANY QUESTIONS RELATING TO SPECIFIC M, E, OR P ISSUES ARE TO BE DIRECTED AS RFI'S THROUGH THE ESD&C PROJECT MANAGER.

   C. SHOULD THE SPACE HAVE BEEN INACCESSIBLE FOR INSPECTION CONTRACTOR MUST INDICATE SO ON HIS BID.
8. THE GENERAL CONTRACTOR'S FIRE SPRINKLER SUBCONTRACTOR SHALL DESIGN AND INSTALL FIRE SPRINKLER SYSTEM CONFORMING TO LANDLORD'S CRITERIA, TENANT'S REQUIREMENTS AND PER LOCAL CODES AND NFPA STANDARDS.
9. THE CONTRACTOR, WITHIN FIFTEEN (15) DAYS OF THE AWARD OF THE CONTRACT, SHALL SUBMIT TO THE OWNER, SIX (6) COPIES OF A COMPLETE LIST OF MATERIALS AND EQUIPMENT PROPOSED FOR THE JOB INCLUDING ALL DATA, PART NUMBERS, RATING CAPACITY, SIZE, DIMENSIONS, ELECTRICAL DATA, GRADE, MANUFACTURER, AND ANY OTHER DESCRIPTIVE DATA FOR ALL EQUIPMENT OR SYSTEMS THAT DEVIATE FROM SPECIFIED ITEMS. ANY DELAYS OR COSTS DUE TO THESE DEVIATIONS, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL UNUSED OR ABANDONED MATERIALS AND EQUIPMENT, AND ITS REMOVAL OFF THE LANDLORD'S PREMISES.
11. OWNER RESERVES THE RIGHT TO HAVE CONSTRUCTION REVIEWED BY AN OUTSIDE CONSULTANT PRIOR TO ACCEPTANCE OF THE PROJECT.
12. EACH CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP RELATED TO HIS WORK FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE WHICH THE OWNER ACCEPTS THE PROJECT. THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER OR TENANT SHALL CORRECT ANY DEFECTS IN MATERIALS OR WORKMANSHIP DURING THIS GUARANTEE PERIOD.
13. EACH CONTRACTOR SHALL BE RESPONSIBLE AND ENSURE A CLEAN INSTALLATION ESPECIALLY IN EXPOSED CEILING AREAS. THE FINAL APPROVAL OF THIS WORK WILL BE ISSUED BY ESD&C PROJECT MANAGER.
14. PROVIDE THREE SETS OF "AS-BUILT" DRAWINGS AND TWO BOUND SETS OF ALL OPERATIONS MANUALS, DIAGRAMS, SERVICE CONTRACTS AND GUARANTEES TO ESD&C PRECEDENT TO FINAL PAYMENT. A REPORT PREPARED BY AN INDEPENDENT AIR BALANCE CONTRACTOR, HIRED BY GC, MUST BE INCLUDED IN THE CLOSE-OUT PACKAGE.

HVAC GENERAL NOTES

1. THESE PLANS MAY BE USED FOR CONSTRUCTION ONLY AFTER APPROVAL IS OBTAINED FROM THE BUILDING DEPARTMENT MECHANICAL PLAN CHECK DIVISION AND THAT DIVISION'S STAMPED APPROVAL AND AUTHORIZED SIGNATURE APPEAR ON THE PLANS.
2. COORDINATE ALL WORK WITH ALL TRADES INCLUDED BUT NOT LIMITED TO ELECTRICAL, PLUMBING, FIRE PROTECTION AND STRUCTURAL CONTRACTORS. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL AND STRUCTURAL MEMBERS. NO ITEM SUCH AS PIPE, DUCT, ETC. IS TO COME IN CONTACT WITH ANY EQUIPMENT.
3. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION WORK.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATION.
5. CONTRACTOR SHALL PROVIDE CUT SHEETS TO ESD&C FOR ALL EQUIPMENT AND DEVICES FURNISHED BY THE CONTRACTOR THAT DEVIATE FROM SPECIFIED ITEM FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OF ANY SUCH EQUIPMENT OR DEVICES.
6. HVAC CONTRACTOR IS RESPONSIBLE TO INQUIRE WITH THE LANDLORD'S REPRESENTATIVE ON ANY SMOKE EVACUATION SYSTEM IN USE AT THE MALL AT THE TIME OF THE BID. IF THE SAID SYSTEM IS NOT ADEQUATELY DESCRIBED ON THE DRAWINGS, THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO INFORM THE GENERAL CONTRACTOR AND INCLUDE THE COST AS A SEPARATE LINE ITEM IN THE BID. NO ADDITIONAL MONEYS SHALL BE AWARDED FOR TIE-IN REQUIREMENTS TO A LANDLORD'S SMOKE EVACUATION SYSTEM THAT IS IN EXISTENCE AT THE TIME OF THE BID, WITHOUT HAVING IDENTIFIED A SEPARATE LINE ITEM FOR THE SMOKE EVACUATION SYSTEM AT THE TIME OF THE BID.
7. ACCESS TO ALL COMPONENTS AND EQUIPMENT MUST BE PROVIDED TO MEET CODE AND SERVICE/MAINTENANCE EASE.
8. PRIOR TO STARTUP OF HVAC EQUIPMENT, MECHANICAL CONTRACTOR WILL CONFIRM WITH ONE OF THE LISTED HVAC MANUFACTURER REPRESENTATIVES THAT CORRECT POWER FOR EQUIPMENT HAS BEEN PROVIDED TO ESD&C PROVIDED HVAC UNITS AND HAS BEEN TURNED ON FOR A MINIMUM OF 24 HOURS. ESD&C RESERVES THE RIGHT TO CHECK CONSTRUCTION COMPLIANCE WITH PLANS AND SPECIFICATIONS. SHOULD THE OWNER FIND CORRECTIVE WORK TO BE NECESSARY, HE WILL NOTIFY CONTRACTOR OF SUCH WORK IN WRITING AND EXPECT COMPLIANCE PERFORMED WITH DUE DILIGENCE. IF ANY CORRECTIVE WORK IS DEEMED TO BE NECESSARY, THE COST OF REINSPECTIONS WILL BE BORNE BY THE CONTRACTOR. THE MECHANICAL CONTRACTOR WILL THEN ENSURE THAT THE EQUIPMENT IS POWERED FOR A MINIMUM OF 24 HRS BEFORE START-UP.
9. IF WORK IS REQUIRED BY ESD&C IN ORDER TO IMPROVE, CHANGE OR CORRECT AIR CONDITIONING OPERATIONAL CONDITIONS DUE TO, PART MALFUNCTION, WARRANTY OR OTHER INABILITY TO PROVIDE THE COMFORT CONDITIONS REQUIRED BY THE STORE, CONTRACTOR SHALL BE DIRECTED BY ESD&C TO ADDRESS THIS WORK IN A TIMELY MANNER. IF IT BECOMES EVIDENT THAT THE CONTRACTOR CANNOT ACCOMPLISH THE TASK, THEN AFTER 72 HOURS OF WRITTEN NOTICE THE OWNER MAY, AT HIS DISCRETION, TAKE OVER SUCH WORK AND BACK CHARGE THE CONTRACTOR FOR ANY CORRECTIVE WORK THAT WAS REQUIRED DUE TO LACK OF PERFORMANCE, WORKMANSHIP AND/OR ADHERENCE TO PLANS AND SPECIFICATIONS.
10. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL VERIFY THE PROPER WORKING ORDER OF THE SYSTEM(S) AND MAKE ANY ADJUSTMENTS AS REQUIRED.
11. PROVIDE FILTER CHANGES THROUGHOUT CONSTRUCTION AS REQUIRED FOR ALL HVAC EQUIPMENT. PROVIDE FILTER CHANGES AT LEAST TWICE MONTHLY ONCE STARTED, PRIOR TO TEST AND BALANCE, AND LASTLY, PRIOR TO MERCHANDISING. ANY EQUIPMENT OR DUCTWORK THAT BECOMES SOILED DUE TO A LACK OF FILTER CHANGES, AS DETERMINED SOLELY BY THE ESD&C PROJECT MANAGER, SHALL BE CORRECTED ON BEHALF OF THE CONTRACTOR AND CHARGES BILLED TO THE CONTRACTOR.
12. EQUIPMENT SCHEDULE NOTES MAY USE THE WORDS "FURNISH" AND "PROVIDE". WHERE THE WORD "FURNISH" IS USED, SOME FIELD INSTALLATION IS REQUIRED BY THE CONTRACTOR. WHERE THE WORD "PROVIDE" IS USED, NO FIELD INSTALLATION IS REQUIRED AS THE DEVICES OR ACCESSORIES ARE FURNISHED AND INSTALLED BY THE MANUFACTURER AS PART OF THE EQUIPMENT WHEN SHIPPED.
13. UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, MATERIAL, LABOR AND SUPERVISION NECESSARY TO COMPLETE THE HEATING, VENTILATING AND AIR CONDITIONING WORK IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARDS AS OUTLINED HEREIN. SEE RESPONSIBILITY SCHEDULE ON SHEET M04.1.
14. MECHANICAL CONTRACTOR SHALL FIELD MEASURE EXISTING ROOF CURB(S) FOR CURB ADAPTER(S), WHERE APPLICABLE, AND SHALL SUPPLY DIMENSIONS TO ESD&C HVAC SUPPLIER PRIOR TO START OF CONSTRUCTION.
15. ALL HEATING VENTILATING AND AIR CONDITIONING EQUIPMENT, INSIDE SPACE OR OUTSIDE SPACE, SHALL BE CLEARLY IDENTIFIED WITH TENANT'S NAME, SPACE NUMBER AND UNIT DESIGNATION WHICH SHALL BE STENCILED IN 4" HIGH BLACK LETTERS. THIS IS IN ADDITION TO ANY LANDLORD REQUIREMENTS FOR UNIT LABELING.
16. FURNISH AND INSTALL ALL NEW DUCTWORK AND INSTALL OWNER SUPPLIED PLENUM BOOTS, SUPPLY AIR DIFFUSERS, AND RETURN AIR GRILLES. SEE AIR DEVICE SCHEDULE ON THIS SHEET.

   A. ALL MATERIAL SHALL BE NEW AND OF COMMERCIAL GRADE AND BEAR UNDERWRITER'S LABORATORY (UL/ULC) AND UNION LABELS WHERE SUCH LABELING APPLIES.

   B. ALL PLENUMS SHALL BE FABRICATED FROM GALVANIZED SHEET METAL OF THE APPROPRIATE GAUGE AND BE INSULATED WITH A MINIMUM OF 1" THICK, 0.75 LB/CU FT. DENSITY FIBERGLASS INSULATION WITH ALUMINUM FOIL BACKED VAPOR BARRIER.

   C. WHERE INDICATED AND AS NEEDED FOR BALANCING, BRANCHES FROM MAIN TRUNK DUCTWORK SHALL BE FURNISHED WITH SPLITTERS, DAMPERS OR SIMILAR BALANCING DEVICES IN ACCORDANCE WITH THE STANDARDS OF SMACNA.

   D. ALL DUCTS FOR FINAL CONNECTION TO DIFFUSERS SHALL BE CLASS 1 UL/ULC LISTED (SL 181) FLEXIBLE AIR DUCT NOT TO EXCEED 4'-0" IN LENGTH (THERMAFLEX, GLADFLEX, OR APPROVED EQUAL).

   E. SUPPLY AND RETURN DUCTWORK SHALL BE LINED FOR ACOUSTIC INSULATION AND HAVE CODE COMPLYING WRAP INSULATION. ALL MATERIALS SHALL COMPLY WITH NFPA 90A AND 90B. SEE SPECIFICATIONS ON SHEET M01.1 FOR MORE INFORMATION.

   F. HANGER WIRES, DUCT STRAPS, FASTENING DEVICES, ETC. SHALL BE FASTENED TO THE STEEL JOISTS AND/OR BEAMS ABOVE. DO NOT ATTACH ANY SUCH ITEMS DIRECTLY TO FLOOR SLABS, PIPING, OTHER DUCTWORK, ELECTRICAL CONDUITS OR THE ROOF DECK ABOVE.

   G. CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR AND MATERIALS (STRUCTURAL SUPPORT, VIBRATION ISOLATION, SEISMIC SUPPORT, ETC.) AS REQUIRED BY LOCAL CODE FOR AN APPROVED INSTALLATION OF ALL DUCTWORK, EQUIPMENT AND AIR DEVICES.

   H. ADDITIONAL FIRE DAMPERS SHOULD BE INSTALLED AS REQUIRED BY ANY APPLICABLE CODES AND/OR JURISDICTIONAL AUTHORITIES.
17. SEAL AROUND PIPES AND DUCTS PENETRATING FIRE SEPARATIONS WITH LISTED AND APPROVED FIRE SEAL MATERIAL. ONLY LISTED AND APPROVED SEALANTS AND METHODS FOR THE SPECIFIC USE WILL BE PERMITTED.
18. MECHANICAL CONTRACTOR SHALL INSTALL ANY CONTROLS (TEMPERATURE SENSORS, CO2 SENSORS, HUMIDITY SENSORS) AS INDICATED ON THE PLAN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL HVAC SYSTEM (VERIFY ALL REQUIREMENTS WITH LOCAL CODES, EXISTING CONDITIONS, LANDLORD AND HVAC EQUIPMENT SUPPLIER). FIELD VERIFY AND COORDINATE FINAL LOCATION WITH ESD&C PROJECT MANAGER.
19. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL FULLY PRESSURE CHECK AND CHARGE ALL REFRIGERANT SYSTEMS (WHERE APPLICABLE, IF NOT FACTORY CHARGED).
20. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT, AIR/WATER BALANCING COMPANY THAT IS NEBB CERTIFIED CONTRACTOR OR HAS AN AABC CERTIFIED TEST & BALANCE ENGINEER. THIS COMPANY SHALL PERFORM THE BALANCING OF AIR/WATER SYSTEM(S) AND MAKE ANY REQUIRED ADJUSTMENTS TO ENSURE PROPER WORKING ORDER. UPON COMPLETION, THE BALANCING COMPANY SHALL PROVIDE A COMPLETE SYSTEM REPORT, INCLUDED AS A COVER TO THIS REPORT SHALL BE A COMPLETED EXPRESS BRANDS HVAC BALANCE CERTIFICATION FORM.

HVAC GENERAL NOTES P

HVAC SYMBOLS LEGEND NTS N

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- LINEAR SLOT DIFFUSER
- DUCT MOUNTED SUPPLY AIR DIFFUSER
- EXISTING SUPPLY AIR DIFFUSER
- EXISTING RETURN AIR GRILLE
- ACCESS PANEL
- EXHAUST AIR REGISTER
- SD-1 350 CFM — GRD DESIGNATION
- (C) CARBON DIOXIDE SENSOR
- (H) HUMIDISTAT
- (T) TEMPERATURE SENSOR
- THERMOSTAT
- (SD) DUCT SMOKE DETECTOR
- POINT OF CONNECTION
- NEW DUCTWORK
- NEW DUCTWORK
- EXISTING DUCTWORK TO REMAIN
- EXISTING DUCTWORK TO BE REMOVED
- MANUAL VOLUME DAMPER
- FSD — COMBINATION FIRE/SMOKE DAMPER
- FD — FIRE DAMPER
- BDD — BACKDRAFT DAMPER
- MD — MOTOR OPERATED DAMPER
- UNDERCUT DOOR
- OBD — OPPOSED BLADE DAMPER
- (R) — RELOCATED
- EX — EXISTING

NOTE TO CONTRACTOR

ITEM(S) NOT SHOWN ON ANY OF THE RESPONSIBILITY SCHEDULES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

ABBREVIATIONS, RESPONSIBILITY SCHEDULES

AC	HVAC EQUIPMENT SUPPLIER
AHJ	AUTHORITY HAVING JURISDICTION
BAS	BUILDING AUTOMATION SYSTEM
EC	ELECTRICAL CONTRACTOR
FAC	FIRE ALARM CONTRACTOR
GC	GENERAL CONTRACTOR
LC	LANDLORD CONTRACTOR
LD	LIGHTING PACKAGE DISTRIBUTOR
LL	LANDLORD
ESD&C	EXPRESS STORE DESIGN & CONSTRUCTION
MC	MECHANICAL CONTRACTOR

LOCAL AREA REQUIREMENTS

YES	NO		YES	NO	
☐	☒	1. SMOKE EVACUATION	☐	☒	5. SPECIAL CURB HEIGHT REQUIREMENTS
☐	☒	2. CARBON DIOXIDE MONITORING	☐	☒	6. FIVE MILE COASTAL PROXIMITY
☐	☒	3. HURRICANE ZONE	☐	☒	7. OTHERS, I.E. METHANE, CARBON MONOXIDE, SOUND SENSITIVE, ETC. DESCRIPTION. . .
☐	☒	4. SEISMIC ZONE			

CONTROLS CHECKLIST

Y	N		Y	N		Y	N	
☐	☒	STANDARD BAS IN IFS	☒	☐	ENTHALPY ECONOMIZER	☒	☐	FIRE ALARM TIE-IN
☒	☐	STANDARD BAS IN PANEL	☐	☒	DRY-BULB ECONOMIZER	☐	☒	LOW AMBIENT OPERATION
☐	☒	MONITORING SYSTEM IN IFS	☐	☒	HUMIDITY CONTROL	☐	☒	VALVE/PUMP CONTROL
☐	☒	COMPLETE LANDLORD BAS CONTROL SYSTEM	☐	☒	DEMAND CONTROL VENTILATION	☐	☒	LANDLORD TIE-IN (ON/OFF, WINTER/SUMMER, ETC.)
			☐	☒	SMOKE EVACUATION			

HVAC RESPONSIBILITY SCHEDULE NOTES L

AABC	AMERICAN AIR BALANCE COUNCIL	ID	INSIDE DIMENSION
AC	AIR CONDITIONING UNIT	IN	INCH
ACCU	AIR COOLED CONDENSING UNIT		
AD	ACCESS DOOR	KW	KILOWATT
AFF	ABOVE FINISH FLOOR	L	LENGTH
AHU	AIR HANDLING UNIT	LB	POUND
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS	LD	LINEAR DIFFUSER
		LF	LINEAR FEET
BDD	BACK DRAFT DAMPERS	MAX	MAXIMUM
BHP	BRAKE HORSEPOWER	MBH	THOUSAND BTU PER HOUR
BLDG	BUILDING	MC	MECHANICAL CONTRACTOR
BOD	BOTTOM OF DUCT	MCA	MINIMUM CIRCUIT AMPACITY
BOP	BOTTOM OF PIPE	MD	MOTORIZED DAMPER
BTUH	BRITISH THERMAL UNIT PER HOUR	MECH	MECHANICAL
		MFR	MANUFACTURER
CAP	CAPACITY	MOCP	MAXIMUM OVER CURRENT PROTECTION
CD	CONDENSATE DRAIN	MP	MEDIUM PRESSURE
CFM	CUBIC FEET PER MINUTE	MTD	MOUNTED
CHWR	CHILLED WATER RETURN	MTR	MOTOR
CHWS	CHILLED WATER SUPPLY	NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
CLG	CEILING	NC	NORMALLY CLOSED
CONT	CONTINUE	NIC	NOT IN CONTRACT
CONTR	CONTRACTOR	NO	NORMALLY OPEN
COP	COEFFICIENT OF PERFORMANCE	N/A	NOT APPLICABLE
CW	DOMESTIC COLD WATER	NTS	NOT TO SCALE
CWR	CONDENSER WATER RETURN	OBD	OPPOSED BLADE DAMPER
CWS	CONDENSER WATER SUPPLY	OD	OUTSIDE DIMENSION
		OA	OUTSIDE AIR
D	DEGREE	P	PUMP
DB	DRY BULB	PC	PLUMBING CONTRACTOR
DIA	DIAMETER	PD	PRESSURE DROP
DIM	DIMENSION	PLBG	PLUMBING
DL	DOOR LOUVER	POC	POINT OF CONNECTION
DN	DOWN	PRV	PRESSURE REDUCING VALVE
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
		(R)	RELOCATE
EA	EXHAUST AIR	RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	RG	RETURN AIR GRILLE
EC	ELECTRICAL CONTRACTOR	RR	RETURN AIR REGISTER
EER	ENERGY EFFICIENCY RATIO	RH	RELATIVE HUMIDITY
EF	EXHAUST FAN	RPM	REVOLUTIONS PER MINUTE
EFF	EFFICIENCY		
EG	EXHAUST AIR GRILLE	SA	SUPPLY AIR
ELEC	ELECTRIC	SAN	SANITARY
ELV	ELEVATION	SD	SUPPLY AIR DIFFUSER
ENC	ENCLOSURE	SG	SUPPLY AIR GRILLE
EQV	EQUIVALENT	SR	SUPPLY AIR REGISTER
ER	EXHAUST AIR REGISTER	SCH	SCHEDULE
ESP	EXTERNAL STATIC PRESSURE	SENS	SENSIBLE
EWC	ELECTRIC WATER COOLER	SF	SQUARE FOOT
EXH	EXHAUST	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
EX	EXISTING	SOV	SHUT-OFF VALVE
		SP	STATIC PRESSURE
F	FAHRENHEIT	SQ	SQUARE
FCU	FAN COIL UNIT	SQFT	SQUARE FEET
FLA	FULL LOAD AMPS	SS	STAINLESS STEEL
FLEX	FLEXIBLE	TEMP	TEMPERATURE
FLR	FLOOR	TG	TRANSFER GRILLE
FPM	FEET PER MINUTE	TSP	TOTAL STATIC PRESSURE
FPS	FEET PER SECOND	T'STAT	THERMOSTAT
FSD	COMBINATION FIRE/SMOKE DAMPER	TYP	TYPICAL
		UC	UNDERCUT
G	GAS	UH	UNIT HEATER
GAL	GALLONS	UON	UNLESS OTHERWISE NOTED
GALV	GALVANIZED	V	VENT
GC	GENERAL CONTRACTOR	VAV	VARIABLE AIR VOLUME
GPM	GALLONS PER MINUTE	VENT	VENTILATION, VENTILATOR
GRD	GRILLE, REGISTER OR DIFFUSER	VFD	VARIABLE FREQUENCY DRIVE
		VTR	VENT THRU ROOF
H	HEIGHT	W	WIDTH OR WATTS
HD	HEAD	W/	WITH
HP	HORSEPOWER	WB	WET BULB
HTR	HEATER	WCO	WALL CLEANOUT
HVAC	HEATING VENTILATING AND AIR CONDITIONING	WG	WATER GAUGE
HW	DOMESTIC HOT WATER	WT	WEIGHT
HWR	HEATING HOT WATER RETURN		
HWS	HEATING HOT WATER SUPPLY		

HVAC ABBREVIATION DEFINITIONS J

ROOFTOP UNIT (RTU) RESPONSIBILITY SCHEDULE

ITEM	FURNISHED BY: ESD&C VENDOR	FURNISHED BY: LANDLORD	FURNISHED BY: CONTR.	INSTALLED OR PERFORMED BY: LANDLORD	INSTALLED OR PERFORMED BY: CONTR.	INSTALLED OR PERFORMED BY: OTHER	RE-USE EXISTING	N/A	REMARKS
ROOFTOP UNIT WITH INTEGRAL UNIT CONTROLLER AND ELECTRIC HEAT	AC				MC		●		MC TO INSTALL NEW CONTROLS FOR EXISTING UNIT
14" TALL FACTORY FABRICATED ROOF CURB FOR RTU							●		
FACTORY FABRICATED CURB ADAPTER FOR RTU							●		
STRUCTURAL STEEL FRAME-OUT OF ROOF OPENING							●		
STRUCTURAL SUPPORT STEEL MODIFICATIONS AS REQUIRED							●		
SUPPLY AIR TEMPERATURE SENSOR							●		INTEGRAL TO UNIT
ECONOMIZER (HOOD WITH BIRDSCEEN, DAMPERS, ETC.)							●		MC TO PROVIDE REQUIRED FIELD MODIFICATIONS
ECONOMIZER CONTROLS (ACTUATOR, SENSOR, ETC.)							●		FINAL CONNECTION BY MC
POWER EXHAUST FOR ECONOMIZER MODE RELIEF AIR								●	
BAROMETRIC DAMPER FOR ECONOMIZER MODE RELIEF AIR							●		INTEGRAL TO UNIT
NON-POWERED GROUND FAULT SERVICE RECEPTACLE							●		INTEGRAL TO UNIT AND WIRED BY EC
NON-FUSED ELECTRICAL DISCONNECT							●		INTEGRAL TO UNIT AND WIRED BY EC
INTEGRAL UNIT DUCT SMOKE DETECTOR AT RETURN AIR			FAC				●		TIE-IN BY FIRE ALARM CONTRACTOR

ADDITIONAL HVAC EQUIPMENT RESPONSIBILITY SCHEDULE

ITEM	FURNISHED BY: ESD&C VENDOR	FURNISHED BY: LANDLORD	FURNISHED BY: CONTR.	INSTALLED OR PERFORMED BY: LANDLORD	INSTALLED OR PERFORMED BY: CONTR.	INSTALLED OR PERFORMED BY: OTHER	RE-USE EXISTING	N/A	REMARKS
BASEBOARD HEATERS								●	
SLIP-IN DUCT HEATERS								●	
ZONE DAMPERS			MC		MC				
UNIT HEATERS								●	

HVAC CONTROLS RESPONSIBILITY SCHEDULE

ITEM	FURNISHED BY: ESD&C VENDOR	FURNISHED BY: LANDLORD	FURNISHED BY: CONTR.	INSTALLED OR PERFORMED BY: LANDLORD	INSTALLED OR PERFORMED BY: CONTR.	INSTALLED OR PERFORMED BY: OTHER	RE-USE EXISTING	N/A	REMARKS
UNIT CONTROLLER AT EACH PIECE OF HVAC EQUIPMENT	AC					AC			NEW CONTROLS FOR EXISTING UNIT
HVAC UNIT COMMISSIONING	AC				MC	AC			CALL HVAC SUPPLIER
SPACE TEMPERATURE SENSORS	AC				MC				MIN. ONE PER UNIT REFER TO PLANS FOR LOCATIONS
SPACE CARBON DIOXIDE SENSORS	AC				MC				ONE PER UNIT REFER TO PLANS FOR LOCATIONS
OUTSIDE AIR TEMPERATURE SENSOR	AC				MC				ONE PER PROJECT
ADDITIONAL CONTROL SYSTEM COMPONENTS	AC				MC				
TEMPERATURE CONTROL SYSTEM WIRE	AC				MC				FINAL CONNECTION BY MC
CONTROL SYSTEM COMMISSIONING	AC				MC	AC			CALL HVAC SUPPLIER
LANDLORD SYSTEM UNIT CONTROLLER AT EACH UNIT								●	
LANDLORD SPACE TEMPERATURE SENSOR/THERMOSTAT								●	
ADDITIONAL LANDLORD CONTROL SYSTEM COMPONENTS								●	
LANDLORD CONTROL SYSTEM COMPONENTS								●	

HVAC GENERAL RESPONSIBILITY SCHEDULE

ITEM	FURNISHED BY: ESD&C VENDOR	FURNISHED BY: LANDLORD	FURNISHED BY: CONTR.	INSTALLED OR PERFORMED BY: LANDLORD	INSTALLED OR PERFORMED BY: CONTR.	INSTALLED OR PERFORMED BY: OTHER	RE-USE EXISTING	N/A	REMARKS
DIFFUSERS AND GRILLES	LD				MC		●		
PLENUMS FOR SLOT DIFFUSERS WHEN FURNISHED BY GRD MANUFACTURER								●	REFER TO GRD SCHEDULE
ALL OTHER PLENUMS								●	
LOCKING QUADRANT MANUAL BALANCING VOLUME DAMPER			MC		MC		●		
DIFFUSERS/GRILLES FIRE DAMPERS								●	
WALL FIRE DAMPERS								●	
COMBINATION FIRE/SMOKE DAMPERS								●	
LOW PRESSURE SUPPLY, RETURN, OUTSIDE AND EXHAUST AIR DUCTWORK			MC		MC		●		
MEDIUM PRESSURE SUPPLY AIR DUCTWORK								●	
DUCT SUPPORTS			MC		MC		●		
SEISMIC BRACING								●	
TOILET EXHAUST FAN(S) WITH TOGGLE DISCONNECT SWITCH							●		
TOILET EXHAUST WALL OR ROOF CAP							●		
PIPING AND PIPING APPURTENANCES (CIRCUIT SETTERS, ETC.)								●	
BALANCE CONTRACTOR REPORT			MC						AABC OR NEBB CERTIFIED
AS-BUILT DRAWINGS			MC						
SMOKE EVACUATION FAN								●	
SMOKE EVACUATION DUCTWORK								●	
SMOKE EVACUATION GRILLES								●	
SMOKE EVACUATION SYSTEM TIE-IN/COORDIANTION								●	
ROOF CUTTING/PATCHING, CURB LEVELING & INSULATED TOE KICK								●	
FIRE ALARM SHUTDOWN RELAY			FAC		FAC				AS APPLICABLE FOR FIRE ALARM SYSTEMS
DUCT HEATER(S)								●	
PAINTING OF EXPOSED DUCT, EQUIPMENT, DEVICES, ETC.			GC		GC				COLOR TO MATCH SURROUNDING FINISH

HVAC RESPONSIBILITY SCHEDULES A

EXPRESS

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