

ITEM/SLASH	FINAL/ISSUE TO BE APPEARED	MEASUREMENT CRITERIA & CHECKLIST	REQUIREMENT REQUIRED FOR SUBMITTAL	REQUIREMENT REQUIRED FOR SUBMITTAL	REQUIREMENT REQUIRED FOR DESIGN ACCEPTANCE
1		<b>ASHRAE 200 DESIGN</b>			
1.1		SUMMER DRY BULB AND WET BULB TEMPERATURES	Architect	Engineer	Reviewer
1.2		ASHRAE DESIGN			
1.B		WINTER DRY BULB TEMPERATURE: 90% ASHRAE DESIGN			
2		<b>ROOM DESIGN</b>			
2.A		SUMMER 74 °F DRY BULB TEMPERATURE AND 50% RELATIVE HUMIDITY	Architect	Engineer	Reviewer
2.B		WINTER 70 °F DRY BULB TEMPERATURES			
3		<b>MECHANICAL DESIGN</b>			
3.A		<b>CORRIDOR</b>			
3.A.1		RETAIL SALES AREA ENTRY: 75 SQ. FT./PERSON	Architect	Engineer	Reviewer
3.A.2		RETAIL SALES AREA ENTRY: 125 SQ. FT./PERSON			
3.A.3		FITTING ROOM, WOMEN: 38 SQ. FT./PERSON			
3.A.4		FITTING ROOM, MEN: 75 SQ. FT./PERSON			
3.A.5		FITTING ROOM, Foyer: 50 SQ. FT./PERSON			
3.A.6		LOCKER ROOM: 10 SQ. FT./PERSON			
3.A.7		OFFICE: 75 SQ. FT./PERSON			
3.A.8		CORRIDOR: 200 SQ. FT./PERSON			
3.A.9		TOILETS: 100 SQ. FT./PERSON			
3.A.10		STOCK ROOM: 500 SQ. FT./PERSON			
3.A.11		CASH ROOM: 150 SQ.FT./PERSON			
3.B		<b>CHANGING ROOM</b>	Architect	Engineer	Reviewer
3.B.1		SEMI-PRIVATE: 740 BATH/PERSON			
3.B.2		PRIVATE: 510 BATH/PERSON			
4		<b>VENTILATION DESIGN</b>			
4.A		<b>OUTDOOR AIR</b>			
4.A.1		15 CFM/PERSON MIN PER ASHRAE RECOMMENDATION OR AS REQUIRED BY APPLICABLE LOCAL CODES.	Architect	Engineer	Reviewer
4.B		<b>HUMIDIFICATION</b>	Architect	Engineer	Reviewer
4.B.1		RETAIL SALES AREA ENTRY: 300 CFM / 3 FT. DOOR			
4.B.2		STOCK ROOM: 300 CFM OR GPM FOR OVERHEAD DRAINING DUCT DOOR USE BETWEEN 8 - 10W (COOLING/HEATING LOAD ESTIMATE)			
4.C		<b>EXHAUST/VENTILATION</b>			
4.C.1		MECHANICAL EXHAUST: LOCKER ROOM, TOILETS, JAMMER, AND EQUIPMENT EXHAUST AT 6 AIR CHANGES PER HOUR	Architect	Engineer	Reviewer
4.C.2		MECHANICAL EXHAUST (SEE SECTION 6.C.3)			
		ELECTRICAL ROOM			
5		<b>ELECTRICAL DESIGN/DESIGN</b>			
5.A		<b>CONDUIT</b>			
5.A.1		USE ACTUAL LIGHTING LOADS	Architect	Engineer	Reviewer
5.B.2		FOLLOWING GUIDELINE FOR USE IF ACTUAL DESIGN IS UNAVAILABLE AS FOLLOWS:			
5.B.2.1		RETAIL SALES AREA, ORIGINAL: 1.3 WATT/SQ FT.			
5.B.2.2		RETAIL SALES AREA, VALUABLE GOODS, LIGHT USED			
5.B.2.3		CHANGING ROOM, WOMEN: 3.25 WATT/SQ. FT.			
5.B.2.4		CHANGING ROOM, MEN: 3.00 WATT/SQ. FT.			
5.B.2.5		CHANGING ROOM, Foyer: 1.50 WATT/SQ. FT.			
5.B.2.6		LOCKER ROOM, OFFICE, CASH, STOCKROOM, TOILETS: 1.80 W/SQ. FT.			
5.B.2.7		CORRIDOR: 1.00 WATT/SQ. FT.			
5.B		<b>ELECTRICAL CODES (SEE SUPPLEMENTARY LOGS)</b>	Architect	Engineer	Reviewer
5.B.1		MANUFACTURE OFFICE: 300 WATTS			
5.B.2		CASH: 200 WATTS			
5.B.3		LOCKER ROOM: 600 WATTS			
5.B.4		AMPHIBIOUS CLOSET: 1000 WATTS			

ITEM NUMBER	ITEM MUST APPEAR ON PLAN SET	MEAD DESIGN CRITERIA & COMMENTS  USE, REVIEW & COMPLETION IS MANDATORY FOR ALL D.D. DISCOUNTS PROVIDED.  CONTACT D.D. DISCOUNTS WITH ALL QUESTIONS.	REWORK REQUIRED FOR SUBMITTAL		
			Architect	Engineer	Reviewer
8		MEAD SYSTEMS DESIGN			
8.A		DISCOUNTS OF HALLWAY FLOOR FINISHES, GENERAL HVAC DISCOUNTS LAYOUT PL-13	Architect	Engineer	Reviewer
8.A.1		AC-1 STOCKROOM, ONLY			
8.A.1.A		AC-1 CONTROL TEMPERATURE SENSOR SHALL BE LOCATED ABOVE THE DOOR 6'-0" AFF			
8.A.2		AC-2 MANAGER OFFICE, CASH LOCKER ROOM, EQUIPMENT STORAGE, CORRIDOR, LOBBIES & REAR OF SALES FLOOR			
8.A.2.A		AC-2 CONTROL TEMPERATURE SENSOR SHALL BE LOCATED WITHIN THE MANAGER'S OFFICE 6'-24" AFF NEXT TO DOOR			
8.A.2.B		AC-2 THE CASH OFFICE AND LOCKER ROOM SHALL HAVE TEMPERATURE CONTROL SUB-ZONES PROVIDED BY SELF-CONTAINED W/ W/ CHANGEOVER TYPE CONTROLLED CEILING SUPPLY DIFFUSERS- THERMOSTAT TYPE "T" 4"			
8.A.2.C		AC-2 DO NOT PROVIDE RETURN AIR FROM THE LOCKER ROOM			
8.A.3		AC-3 RETAIL SALES FLOOR EXTERIOR/PERIMETER WALL AREA LEFT SIDE AS VIEWED FROM STORE ENTRY			
8.A.4		AC-4 MEN'S AND WOMEN'S FITTING ROOMS, Foyer, AND REAR RETAIL SALES FLOOR AT Foyer ENTRY			
8.A.4.A		AC-4 IN-UNIT CONTROL TEMPERATURE SENSOR SHALL BE LOCATED WITHIN THE WOMEN'S FITTING ROOM CORRIDOR 6'-0" AFF			
8.A.4.B		AC-4 THE Foyer AND MEN'S FITTING ROOM SHALL HAVE TEMPERATURE CONTROL SUB-ZONES PROVIDED BY SELF-CONTAINED W/ W/ CHANGEOVER TYPE CONTROLLED CEILING SUPPLY DIFFUSERS- THERMOSTAT TYPE "T" 4"			
8.A.5		AC-5 RETAIL SALES FLOOR INTERIOR AREA			
8.A.5.B		AC-5 RETAIL SALES FLOOR INTERIOR AREA			
8.A.6		AC-6 POINT SIDE AS VIEWED FROM STORE			
8.A.7		AC-7 RETAIL SALES FLOOR ENTRY AREA, WIDTH OF ENTRY GLASS			
8.A.8		REINIGEL & TACKER PROJECTS SHALL HAVE EQUIVALENT TEMPERATURE CONTROL ZONES, NUMBERED AND SIZED ACCORDING TO THE PROVISIONAL ZONES DESCRIBED.			
8.B	Y	SEE DISCOUNTING SCHEDULE			
8.B.1	Y	NATIONAL ACCOUNT REPRESENTATIVE DISCOUNTS	Architect	Engineer	Reviewer
8.B.1.A	Y	OO'S DISCOUNTS HAS A NATIONAL ACCOUNT AGREEMENT WITH LEADIN HINDUSTRIES TO SUPPLY CASH PRODUCTS FOR ALL LOCATIONS, NO SUBSTITUTIONS WITHOUT SPECIAL CONSENTS AND THE APPROVAL OF OO'S VP OF CONSTRUCTION/SALES -SS-1755.			
8.B.1.B	Y	LEADIN INDUSTRIES LLC SHALL BE PROVIDED WITH THE UNIT SPECIFICATIONS AND SCHEDULE BY THE G.C. PRIOR TO EOI DATE FOR PRODUCTION SCHEDULING AND FOR PREPARATION OF THEIR CONNECTION TO BIDDING.			
8.B.1.C	Y	HVAC CONTRACTORS ARE DIRECTED TO CALL DDD HAVES, LEADIN HINDUSTRIES ACCOUNT REPRESENTATIVE FOR EQUIPMENT INFORMATION SEE CONTACT LIST SHEET 40-0			
8.B.1.D	Y	EQUIPMENT WARRANTY - LEADIN INDUSTRIES SHALL PROVIDE A 100-PRCENT WARRANTY OF 5 YEARS FOR THE COMPRESSORS AND 10 YEARS FOR THE HEAT EXCHANGERS.			
8.B.2	Y	YTYPE	Architect	Engineer	Reviewer
8.B.2.A	Y	FURNISH AND INSTALL LEADIN "L" SERIES HIGH EFFICIENCY, PACKAGED ROOF MOUNTED, GAS HEATING, ELECTRIC COOLING UNITS.			
8.B.2.B	Y	USE OF ELECTRIC HEATING OR HEAT PUMPS REQUIRES SPECIAL CONSENTS AND THE APPROVAL OF BOSS VP. OF CONSTRUCTION.			
8.B.2.C	Y	VERTICAL (DOWN-FLOW) TYPE UNITS ARE STANDARD.			
8.B.3	Y	PACKAGED GAS FURNACE INSTALLATION METHODS			
8.B.3.A	Y	LEADIN TO SUPPLY FACTORY INSTALLED AND FACTORY TESTED WITH 20% CONTROL MODULES FOR HEAT PUMPS AND FACTORY SUBCONTRACTOR TO SUPPLY INDOOR CONTROLS ON EXISTING UNITS, UNIT MANUFACTURER TO PROVIDE CONVENTIONAL THERMOSTAT INTERFACE IN EXISTING UNITS FOR LEADIN UNITS.	Architect	Engineer	Reviewer

		HVAC DESIGN CRITERIA & COMPLETION			SIGN-OFF REQUIRED FOR SUBMITTAL	SIGN-OFF REQUIRED FOR SUBMITTAL	SIGN-OFF REQUIRED FOR DISCOUNT ACCEPTANCE
		USE, REVIEW & COMPLETION IS NECESSARY FOR ALL DISCOUNTS PROJECTS.					
CONTACT D.D.'S DISCOUNTS WITH ANY QUESTIONS.							
ITEM NUMBER	ITEM SHALL APPEAR IN DISCOUNTS						
E.B.3.B	Y	EXHAUSTERS TO BE OAR DRIVEN AND FACTORY INSTALLED ON ALL UNIT'S 5-TONS AND ABOVE. GLOBAL ENTHALPY CONTROLS ARE TO BE USED FOR THE CONTROL OPTION ON THE EXHAUSTER. EXHAUSTER TO BE SUPPLIED WITH OUTDOOR AIR HAND. TWO CLEARANCE ALUMINUM MESH FRESH AIR FILTERS TO BE PURCHASED BY LENOX.					
E.B.3.C	Y	25% OUTSIDE AIR INTAKE HOODS WITH BALANCE DAMPER AND BIRD SCREEN SHALL BE FACTORY INSTALLED ON UNITS WITHOUT AN EXHAUSTER.					
E.B.3.D	Y	POWER EXHAUST FANS SHALL BE FACTORY INSTALLED ON 10-TON AND LARGER UNITS WITH AN EXHAUSTER HAVING A HIGH (GREATER THAN 0.3") SP" DESIGN RETURN AIR PRESSURE LOSS.					
E.B.3.E	Y	SUPPLY AND RETURN SMOKE DETECTORS TO BE PROVIDED AND FACTORY INSTALLED BY LENOX. IF LOCAL CODE REQUIREMENTS DO NOT ALLOW FACTORY INSTALLATION, LENOX WILL PROVIDE SMOKE DETECTORS TO BE FIELD INSTALLED BY THE HVAC CONTRACTOR AND ELECTRICAL CONTRACTOR SHALL FIELD FIRE DETECTORS TO UNIT AS NECESSARY.					
E.B.3.F	Y	HOUR CIRCUIT BREAKERS TO BE FACTORY INSTALLED AND FACTORY WIRED BY LENOX ON ALL UNITS.					
E.B.3.G	Y	SERVICE OUTLETS: LENOX TO FACTORY INSTALL A DUAL 120-VOLT GFI TYPE SERVICE OUTLET, NIBING TO THE OUTLET SHALL BE FIELD PROVIDED BY ELECTRICAL CONTRACTOR ON SITE.					
E.B.3.H	Y	CURBS: USE ONLY LENOX STANDARD CURBS OR ADAPTOR CURBS, TO BE SUPPLIED BY LENOX.					
E.B.3.I	Y	ROOFTOP HVAC UNITS SHALL BE SUPPLIED WITH LENOX COASTAL PACKAGE (TECHNICAL) WHEN SITE IS LOCATED WITHIN 6 MILES OF THE COAST OR FURNISH IF IN A CORROSION ENVIRONMENT. BOTH THE EXHAUSTERS AND CONDENSER COILS SHALL BE COATED.					
E.B.4		Sizing				Prebid	Prebid
E.B.4.A		UNITS SHALL BE SELECTED BASED UPON CLOSEST SIZE THAT EXCEEDS THE CALCULATED CAPACITY (TONS/CFM) AT AN ENTHERALP CONDENSER AIR TEMPERATURE 5 DEG. F HIGHER THAN THE ASHRAE 1.5 DESIGN OUTDOOR AIR TEMPERATURE. ALL UNITS SPECIFIED MUST MEET OR EXCEED ASHRAE 90.1 1999 MINIMUM REQUIREMENTS.					
E.B.4.B		ACHN COOLING AND HEATING LOAD CALCULATIONS MUST BE SUBMITTED FOR REVIEW AND APPROVAL TO THE D.D.'S DISCOUNTS ASSIGNED CONSULTANT REPRESENTATIVE WITH THE FINAL DESIGN SUBMITTAL (SEE E.B.3).					
E.B.4.C		SIZING GUIDELINES HAVE BEEN CHECKED AGAINST THOSE PROVIDED ON:					
E.B.4.D		CHART 1 FOR AC-1 (ALLIANCE DESIGNATED FOR STOCKROOM)					
		CHART 2 FOR AC-2 (TYPICAL GUINTELL DESIGNATED FOR STOCKROOMS)					
		CHART 3 FOR AC-7 (ALLIANCE DESIGNATED FOR STORE ENTRY)					
		THE SIZING FACTOR SHOWN IN TABLE 1 HAS BEEN BASED ON THE FOLLOWING CRITERIA, WHICH THE BUILDING DESIGN MUST MEET:					
		DESIGN W/F FACTOR: 1.15					
		WALL U/F FACTOR: 0.10					
		ROOF U/F FACTOR: 0.05					
E.B.4.E		PEOPLE LOAD PER SECTION 3					
E.B.4.F		LIGHTING LOAD PER SECTION 4					
E.B.4.G		ELECTRICAL CONDUIT SCHEDULE OUTLET LOAD PER SECTION 5					
E.B.4.H		UTILIZATION PER SECTION 5					
E.B.4.I		SAFETY FACTOR: 10%					
E.B.4.E		LENOX WILL RELEASE UNIT ORDERS WITH D.D.'S CRITERIA CONDONSER, ARE SUBMITTABLE					

	TECHNICAL APPENDIX ON PLANS	MEANS, METHODS, MATERIALS & EQUIPMENT USE, REVIEW & COMPLETION IS MANDATORY FOR ALL DD'S DISCOUNTS PROJECTS. CONTACT DD'S DISCOUNTS WITH ANY QUESTIONS.	SIGN-OFF REQUIRED FOR SUBMITTAL	SIGN-OFF REQUIRED FOR SUBMITTAL	SIGN-OFF REQUIRED FOR ACCEPTANCE
6.C	Y	MECHANICAL RISERS	Architect	Engineer	Reviewer
6.C.1	Y	BELL DOWNS CENTRIFUGAL ROOF EXHAUSTER (ACHE, GREENHOUSE OR EQUIVALENT)			
6.C.2	Y	COMPLETE WITH CURB, BACKDRIFT DAMPER AND DISCONNECT SWITCH			
6.C.4	Y	FAH SOUND RATING SHALL BE 5 SONES OR LESS. S. RESTRICTION AND MINIMUM CLOSET EXHAUST FAN SHALL BE CONTROLED BY THE EXISTING IN-DOOR SYSTEMS IF EXHAUST FAN IS SEPARATE FROM THE LOCKER ROOM AND EQUIPMENT CLOSET. LOCKER ROOM AND EQUIPMENT CLOSET EXHAUST FAN SHALL BE CONTROLLED BY LIGHTING. COVER (LOC-1) CONTROLLER AND LINE VOLTAGE THERMOSTAT IN PARALLEL (SEE DETAIL 7) ON SHEET E-1-1. LOCATE THE THERMOSTAT FOR THE EXHAUST FAN IN THE EQUIPMENT CLOSET. 20-55-2 AFF. TEST TO SCOR.			
6.C.5	Y	POWER EXHAUST IS REQUIRED IN THE ELECTRICAL ROOM. EXHAUST FAN SHALL RUN ON LINE VOLTAGE THERMOSTAT; PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR; WERED BY ELECTRICAL CONTRACTOR.			
6.D		MECHANICAL RISERS	Architect	Engineer	Reviewer
6.D.1		PLANS SHALL BE COMPLETE INCLUDING THE FOLLOWING:			
6.D.1.A	Y	A/C UNITS/SHEDDERS			
6.D.1.B	Y	EXHAUST FANS			
6.D.1.C	Y	SHOWER EXHAUSTS			
6.D.1.D	Y	ROOF HEADERS (IF ZERO-PILE)			
6.D.1.E	Y	OUTLET TYPES AND SIZES			
6.D.1.F	Y	DUCTWORK TYPE AND SIZE			
6.D.1.G	Y	INSULATION TYPE AND "R" FACTOR			
6.D.1.H	Y	BALANCE DAMPERS, FIRE DAMPERS, TURNING VALVES, EXTRACTORS, ACCESS DOORS/PANELS AND OTHER ACCESSORY SECT METAL THRU			
6.D.1.I	Y	SEA PIRING TYPE AND SIZE			
6.D.1.J	Y	CONDENSATE DRAIN PIPING TYPE AND SIZE			
6.D.1.K	Y	COMPLETE LUBRICATION CALCULATIONS			
6.D.2		PLAN REVIEWER THE COMPLETE (100%) PLAN SET, PLUS LOW CALCULATIONS FOR EACH UNIT MUST BE SUBMITTED FOR REVIEW TO:			
6.D.2.A		THE ASSIGNED RISES CONTRIBUTION REPRESENTATIVE (925) 456-4758			
6.D.2.B		THE ROOFTOP ENGINEERING CONSULTANTS: CSC BUILDING ADDITION, ATTN: MARK JOHNSON, 350 WEST AVENUE 20, SOUTH SAN FRANCISCO, CA 94080 PHONE: (650) 292 7455 EMAIL: ENR@CSC.COM ADDITIONALLY PROVIDE ONE BUILDING AUTHORITY/MECHANICAL AN AUTOCAD BACKGROUND FLOOR PLAN DRAWING ON DISK OR BY MAIL FOR PREPARATION OF RISE SYSTEM DRAWINGS. THE UNIT MANUFACTURER(S).			
6.D.2.C		LENOX INDUSTRIES, INC. ATTENTION DANNY HAYES, LENOX NATIONAL ACCOUNTS FOR DD'S DISCOUNTS. SEE CONTACT LIST ON 94-6.			
6.D.3		AS BUILT DRAWINGS: A FULLY UPDATED AS-BUILT AUTOCAD MECHANICAL SET SHALL BE PROVIDED TO DD'S DISCOUNTS AT CONSTRUCTION TERMINOR AND AS REQUIRED FOR FINAL ACCEPTANCE UNDER LEASE.			
6.E		MECHANICAL RISERS	Architect	Engineer	Reviewer
6.E.1		SIZING, SUPPLY AT 0.10/100, RETURN AT 0.08/100 AND EXHAUST CONNECTIONS TO OUTLETS AT 800 FPM MAX.			
6.E.2	Y	ALL DUCTWORK SHALL BE GALVANIZED STEEL WITH TRANSVERSE DUCT JOINTS SEALED WITH 4" WIDE HARDGUST TAPE. DUCT TAPE IS NOT ACCEPTABLE. HARDSGUST FLEXIBLE DUCTS WITH LINER MAY BE USED FOR BRANCH DUCT CONNECTIONS TO OUTLETS WITH 10 FT. MAXIMUM LENGTH.			
6.E.3	Y	ALL BRANCH DUCT CONNECTIONS TO OUTLETS SHALL INCLUDE A MANUAL BALANCE DAMPER WITH LOCKING GUARDLOC LOCATED AT THE BRANCH DUCT CONNECTION TO THE OUTLET.			

ITEM NO.	REQUIREMENT	DESIGNER'S COMMENTS	ARCHITECT	ENGINEER	REVIEWER
6.5.4	Y DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.				
6.5.5	Y UNLESS A HIGHER LEVEL IS REQUIRED BY CODE, DUCTWORK INSULATION SHALL BE 1" THICK OIL PUMP GRADE FIBERGLASS INSULATION WITH A VAPOR BARRIER JACKET, SUPPLY AND RETURN DUCTS WITH 15' OF HVAC UNITS SHALL HAVE 1" INTERIOR ACQUISIC INSULATION.				
6.5.6	Y AT EXPOSED CEILING, ANY EXPOSED DUCTWORK SHALL BE SPIRAL DUCTS AND INTERNALLY INSULATED.				
6.F	ADD DIFFERENTIATION BETWEEN CHIMNEY CANS		Architect	Engineer	Reviewer
6.F.1.A	CHIMNEY CANS SHALL BE LIMITED TO EXIST 10' MAX. 50' CANS, 15' AREA, AND 50' CANS CAPACITY (THE MOST RESTRICTIVE TO COMPLY).				
6.F.1.B	Y CHIMNEY CANS SHALL BE STEEL WITH A WHITE FINISH (PAINT VISIBLE INTERIOR PLAT BLACK).				
6.F.1.C	Y CHIMNEY CANS SHALL BE REQUIRED WHEN A BRANCH EXIST BALANCE DAMPER IS PROVIDED.				
6.F.1.D	Y CHIMNEY CANS SHALL BE THE FOLLOWING (NO EXERCISES)		Architect	Engineer	Reviewer
6.F.1.D.1	1" - 2" CHIMNEY THIS IS OK				
6.F.1.D.2	3" - 4" CHIMNEY THIS IS OK				
6.F.1.D.3	5" - 6" CHIMNEY THIS IS OK				
6.F.1.D.4	7" - 8" CHIMNEY THIS IS OK				
6.F.1.D.5	9" - 10" CHIMNEY THIS IS OK				
6.F.1.D.6	11" - 12" CHIMNEY THIS IS OK				
6.F.1.D.7	13" - 14" CHIMNEY THIS IS OK				
6.F.1.D.8	15" - 16" CHIMNEY THIS IS OK				
6.F.1.D.9	17" - 18" CHIMNEY THIS IS OK				
6.F.1.D.10	19" - 20" CHIMNEY THIS IS OK				
6.F.1.D.11	21" - 22" CHIMNEY THIS IS OK				
6.F.1.D.12	23" - 24" CHIMNEY THIS IS OK				
6.F.1.D.13	25" - 26" CHIMNEY THIS IS OK				
6.F.1.D.14	27" - 28" CHIMNEY THIS IS OK				
6.F.1.D.15	29" - 30" CHIMNEY THIS IS OK				
6.F.1.D.16	31" - 32" CHIMNEY THIS IS OK				
6.F.1.D.17	33" - 34" CHIMNEY THIS IS OK				
6.F.1.D.18	35" - 36" CHIMNEY THIS IS OK				
6.F.1.D.19	37" - 38" CHIMNEY THIS IS OK				
6.F.1.D.20	39" - 40" CHIMNEY THIS IS OK				
6.F.1.D.21	41" - 42" CHIMNEY THIS IS OK				
6.F.1.D.22	43" - 44" CHIMNEY THIS IS OK				
6.F.1.D.23	45" - 46" CHIMNEY THIS IS OK				
6.F.1.D.24	47" - 48" CHIMNEY THIS IS OK				
6.F.1.D.25	49" - 50" CHIMNEY THIS IS OK				
6.F.1.D.26	51" - 52" CHIMNEY THIS IS OK				
6.F.1.D.27	53" - 54" CHIMNEY THIS IS OK				
6.F.1.D.28	55" - 56" CHIMNEY THIS IS OK				
6.F.1.D.29	57" - 58" CHIMNEY THIS IS OK				
6.F.1.D.30	59" - 60" CHIMNEY THIS IS OK				
6.F.1.D.31	61" - 62" CHIMNEY THIS IS OK				
6.F.1.D.32	63" - 64" CHIMNEY THIS IS OK				
6.F.1.D.33	65" - 66" CHIMNEY THIS IS OK				
6.F.1.D.34	67" - 68" CHIMNEY THIS IS OK				
6.F.1.D.35	69" - 70" CHIMNEY THIS IS OK				
6.F.1.D.36	71" - 72" CHIMNEY THIS IS OK				
6.F.1.D.37	73" - 74" CHIMNEY THIS IS OK				
6.F.1.D.38	75" - 76" CHIMNEY THIS IS OK				
6.F.1.D.39	77" - 78" CHIMNEY THIS IS OK				
6.F.1.D.40	79" - 80" CHIMNEY THIS IS OK				
6.F.1.D.41	81" - 82" CHIMNEY THIS IS OK				
6.F.1.D.42	83" - 84" CHIMNEY THIS IS OK				
6.F.1.D.43	85" - 86" CHIMNEY THIS IS OK				
6.F.1.D.44	87" - 88" CHIMNEY THIS IS OK				
6.F.1.D.45	89" - 90" CHIMNEY THIS IS OK				
6.F.1.D.46	91" - 92" CHIMNEY THIS IS OK				
6.F.1.D.47	93" - 94" CHIMNEY THIS IS OK				
6.F.1.D.48	95" - 96" CHIMNEY THIS IS OK				
6.F.1.D.49	97" - 98" CHIMNEY THIS IS OK				
6.F.1.D.50	99" - 100" CHIMNEY THIS IS OK				
6.F.1.D.51	101" - 102" CHIMNEY THIS IS OK				
6.F.1.D.52	103" - 104" CHIMNEY THIS IS OK				
6.F.1.D.53	105" - 106" CHIMNEY THIS IS OK				
6.F.1.D.54	107" - 108" CHIMNEY THIS IS OK				
6.F.1.D.55	109" - 110" CHIMNEY THIS IS OK				
6.F.1.D.56	111" - 112" CHIMNEY THIS IS OK				
6.F.1.D.57	113" - 114" CHIMNEY THIS IS OK				
6.F.1.D.58	115" - 116" CHIMNEY THIS IS OK				
6.F.1.D.59	117" - 118" CHIMNEY THIS IS OK				
6.F.1.D.60	119" - 120" CHIMNEY THIS IS OK				
6.F.1.D.61	121" - 122" CHIMNEY THIS IS OK				
6.F.1.D.62	123" - 124" CHIMNEY THIS IS OK				
6.F.1.D.63	125" - 126" CHIMNEY THIS IS OK				
6.F.1.D.64	127" - 128" CHIMNEY THIS IS OK				

	TECHNICAL APPENDIX D-1	MTCAS DESIGN CRITERIA & CHECKLIST <u>USE, REVIEW &amp; COMPLETION IS MANDATORY FOR ALL DDO'S SUBMITTALS PRIOR TO THE CONTACT DDO'S DISCOUNTS WITH ANY QUESTIONS.</u>	SIGNATURE REQUIRED FOR SUBMITTAL	SIGNATURE REQUIRED FOR SUBMITTAL	SIGNATURE REQUIRED FOR DESIGN ACCEPTANCE
7.A.2	Y	HAR COORDINATING UNIT MANUFACTURER: LENOX INDUSTRIES, INC. MECHANICAL CONTRACTOR SHALL PROVIDE AN EQUIPMENT OPERATION CHECK AFTER THE HVAC INSTALLATION AND STARTUP IS COMPLETED PER MANUFACTURER SPECIFICATIONS. LENOX AUTHORIZED PERSONNEL SHALL THEN INSPECT THE CONTRACTOR INSTALLATION AND THE SYSTEM OPERATION. DOC DOCUMENTATION SHALL BE PROVIDED TO THE DDO'S DISCOUNTS CONSTRUCTION REPRESENTATIVE.			
7.A.2.B	Y	THE MECHANICAL CONTRACTOR SHALL SCHEDULE THE DOC WITH LENOX INDUSTRIES AT LEAST THREE (3) WEEKS PRIOR TO DESIRED DATE (CONTACT REP O'DELL, LENOX NATIONAL ACCOUNT TEAM TECHNICAL CONSULTING, PHONENOS) 941-4168) AND NOTIFY THE ASSIGNED DDO'S CONSTRUCTION REPRESENTATIVE OF THE SCHEDULED DATE AND TIME/SEE 0.0.1.4			
7.A.2.C	Y	PRIOR TO SCHEDULING THE DOC, THE HVAC SUBCONTRACTOR MUST VERIFY THAT THE SHIPPING BODIES HAVE BEEN REMOVED, ALL OF THE AIR-COORDINATING UNITS ARE OPERATIONAL, OUTDOOR GAS, PUBLIC, CONDENSATE PIPING, POWER WIRING AND CONTROL WIRING, HAS BEEN INSTALLED.			
7.A.2.D	Y	THE HVAC SUB-CONTRACTOR SHALL PROVIDE AT THEIR COST A QUALIFIED SERVICE TECHNICIAN TO BE PRESENT DURING THE EQUIPMENT OPERATION CHECK.			
7.A.2.E	Y	LENOX REPRESENTATIVES SHALL PROVIDE A WRITTEN COPY OF THE DOC REPORT TO THE ASSIGNED DDO'S CONSTRUCTION REP. THE HVAC SUB-CONTRACTOR PRESENT AT THE CHECK, AND CEAL.			
7.A.2.F	Y	AIR AND ALL DEFECTS IN THE AIR CONTROLS SHALL BE CORRECTED BY THE HVAC SHIP OUTDOOR UNIT 30 DAYS AFTER THE DISTRIBUTION OF THE DOC REPORT. FAILURE TO REPAIR A DEFECT DURING THE DOC DOES NOT RELIEVE THE LANDLORD AND THE HVAC SUB-CONTRACTOR OF THE RESPONSIBILITY TO CORRECT SUBSEQUENTLY IDENTIFIED DEFECTS.			
7.A.3	Y	ALL EQUIPMENT, INSTALLATION, DESIGN AND OPERATION DEFECTS DISCOVERED DURING THE INSTALLATION, CHECK, BALANCE AND COMMISSIONING OF THE HVAC SYSTEM THAT REQUIRE CHANGE IN THE DESIGN AND SPECIFICATION OF THE HVAC SYSTEM OR ITS COMPONENTS MUST BE PROPERLY DOCUMENTED AND CHANGES ORDER IN THE PROJECT CONSTRUCTION DOCUMENTS AND THAT CHANGE-ORDER REVIEWED AND APPROVED BY BOTH THE LANDLORD AND THE DDO'S CONSTRUCTION REPRESENTATIVE.			
7.B	Y	GENERAL NOTES	Architect	Engineer	Reviewer
7.B.1	Y	QUALITY ASSURANCE			
7.B.1.A	Y	THE AIR EXHAUSTS SHALL BE DONE BY AN INDEPENDENT ABC OR HAVC CERTIFIED FIRM AT THE COST OF THE GENERAL CONTRACTOR.	Architect	Engineer	Reviewer
7.B.2	Y	GENERAL NOTES	Architect	Engineer	Reviewer
7.B.2.A	Y	WITHIN 30 DAYS AFTER THE CONTACT IS AWARDED PROVIDE THE NAME AND QUALIFICATIONS OF THE FIRM TO BE USED FOR THE BALANCING AND SAMPLE TEST FORMS TO BE USED FOR THE BALANCING REPORT.			
7.B.2.B	Y	AFTER THE BALANCING HAS BEEN COMPLETED, PROVIDE A WRITTEN COPY OF THE BALANCING REPORT TO: (1) THE DDO'S CONSTRUCTION REPRESENTATIVE, (2) THE HVAC SUB-CONTRACTOR, AND (3) CAC BUILDING ADMINISTRATION (SEE 0.2.B)			
7.B.3	Y	ELECTRICAL	Architect	Engineer	Reviewer
7.B.3.A	Y	PRIOR TO COMMENCING WITH THE BALANCING WORK, THE BALANCING SUBCONTRACTOR SHALL INSPECT THE OUTDOOR INSTALLATION TO DETERMINE IF ALL RETURN GRILLS, BALANCING DAMPERS AND ACCESS DOORS/PANELS HAVE BEEN INSTALLED.			

	ITEM/ALIAS	THREAT IDENTIFICATION & CONSEQUENCE ANALYSIS	USE, DESIGN & COMPLETION IS MANDATORY FOR ALL DD'S DISCOUNTS PROJECTS.	CONTACT DD'S DISCOUNTS WITH ANY QUESTIONS.	RISK OF REQUIRED FOR COMBATANT	RISK OF REQUIRED FOR SUBSISTENCE	RISK OF REQUIRED FOR DESIGN ACCEPTANCE
7.3.B.9	Y	BALANCE ALL FAIS TO WITHIN +10%/-5% OF DESIGN. REPLACE FAH DRIVE IF REQUIRED TO OBTAIN THE DESIGN CAPACITY.					
7.3.B.C	Y	BALANCING OUTLETS AS FOLLOWS: SMALL AREAS WITH 1 OR 2 OUTLETS +/-5% OF DESIGN LARGE AREAS WITH 3 OR MORE OUTLETS +/-10% OF DESIGN.					
7.3.B.D	Y	REPORT IN WRITING ALL REMEDIATION PROBLEMS DISCOVERED TO: (1) THE RISS DISCOUNT CONSTRUCTION REPRESENTATIVE (2) CMC BUILDING AUTOMATION AND (3) THE HVAC CHECKOUT GROUP PRIOR TO COMPLETING THE BALANCING WORK. THIS REPORT SHOULD INCLUDE THE "CAUSE" AND SUGGESTED "SOLUTION" IF KNOWN.					
7.3.B.E	Y	THE AIR CONDITIONING UNITS SHALL BE BALANCED IN THE MINIMUM OUTSIDE AIR POZE. THE OUTSIDE AIR POZE SHOULD BE THROUGH OPEN POSITION AND THE "METHOD" USED SHALL BE INCLUDED IN THE BALANCING REPORT. ALSO RECORD AND REPORT THE FAH OPERATING DATA FOR UNITS WITH ECONOMIZERS IF THE 100% OUTSIDE AIR MODE.					
7.3.4	Y	FIELD VERIFICATION UPON THE REQUEST OF THE DD'S DISCOUNTS CONSTRUCTION REPRESENTATIVE, THE BALANCING SUBCONTRACTOR SHALL RECORD RANDOMLY SELECTED OUTLETS AS CHOSEN BY THE CONSTRUCTION REPRESENTATIVE TO DEMONSTRATE THE ACCURACY OF THE BALANCE REPORT MEASUREMENTS. WHEN DEEMED NECESSARY BY THE CONSTRUCTION REPRESENTATIVE, THE BALANCING CONTRACTOR SHALL REPEAT/DUPLICATE SYSTEMS WITHOUT ANY ADDITIONAL COST.					
7.3.5	Y	CONVECTION OF DEFECTS REQUIRED WITHIN 30 DAYS OF THE DISTRIBUTION OF THE BALANCING REPORT, SEE 7.3.3 FOR RESPONSIBILITIES.					
7.3.C	Y	CONTROLS AND CONTROL WIRING THE DUS AND/OR THE ELECTRICAL SUBCONTRACTOR ARE RESPONSIBLE FOR THE AIR CONDITIONING UNIT AND EXHAUST FAN FIELD SUPPLIED CONTROLS, WIRING AND OPERATIONAL CHECKS THEREOF.					
7.3.D	Y	SHALES AREA TEMPERATURE SENSORS AND/OR ELECTRONIC THERMISTATS SHALL BE INSTALLED AT 7'-8" AFF.					
7.3.E	Y	OPERATION AND MAINTENANCE MANUALS: THREE (3) BOUND SETS OF THE OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE DD'S CONSTRUCTION REPRESENTATIVE AT TURNOVER AND ARE REQUIRED FOR FINAL ACCEPTANCE.					
7.3.F	Y	AS-BUILT DRAWINGS: THE HVAC SUBCONTRACTOR SHALL PROGRESSIVELY RECORD ALL HVAC DRAWING CHANGES WHICH SHALL BE AVAILABLE AT ALL TIMES FOR REVIEW BY THE DD'S DISCOUNTS CONSTRUCTION REPRESENTATIVE. AN AUTOLOCK COPY OF THE FINAL AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE DD'S DISCOUNTS CONSTRUCTION REPRESENTATIVE AT TURNOVER. THIS AUTOLOCK AS-BUILT IS REQUIRED FOR FINAL ACCEPTANCE OF THE PROJECT.					
7.3.G	Y	HVAC FILTERS ARE TO BE CHANGED ON A QUARTERLY BASIS DURING THE FIRST WARRANTY YEAR BEGINNING WITH THE FIRST CHARGE AT THE DATE OF SOURCE OPENING. NEW FILTERS ARE TO BE INSTALLED AT OPENING AND EVERY THREE MONTHS THEREAFTER WITH THE NEXT CHARGE. NEW LEAKY FILTERS ARE TO BE REPLACED.					

A COPY OF THIS CHECKLIST IS TO BE COMPLETED AND INCLUDED AS AN INDEXED SHEET IN THE PROJECT COMPLETED PLAN SET. NO EXCEPTION.

NO SUBMITTAL WILL BE ACCEPTED FOR REVIEW BY ROSS UNTIL THIS SHEET IS COMPLETELY FOLLOWED

## HVAC DESIGN CRITERIA & SPECIFICATION CHECKLIST