

2020 NYCCEC COMMERCIAL HVAC TABULAR ANALYSIS					
NYCEC CITATION	PROVISION	ITEM DESCRIPTION	CODE PRESCRIPTIVE VALUE (ECC)	PROPOSED DESIGN VALUE	SUPPORTING DOCUMENTATION
C403.1.1	CALCULATION OF HEATING AND COOLING LOADS	LOAD CALCULATIONS FOR HVAC SYSTEMS	DETERMINED IN ACCORDANCE WITH ANSI/ASHRAE/ACCA STANDARD 183 HVAC SYSTEMS AND EQUIPMENT HANDBOOK	DESIGN LOADS ARE DETERMINED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE ANSI/ASHRAE/ACCA STANDARD183.	SIGNED AND SEALED STATEMENT FROM ENGINEER CERTIFYING COMPLIANCE WITH ENERGY CODE
C403.2.1	ZONE ISOLATION REQUIRED	ZONE ISOLATION	HVAC SYSTEMS SERVING ZONES THAT ARE OVER 25,000 FT ² IN FLOOR AREA OR THAT SPAN MORE THAN ONE FLOOR AND ARE DESIGNED TO OPERATE OR BE OCCUPIED NONSIMULTANEOUSLY SHALL BE CONTROLLED INDEPENDENTLY AND DIVIDED INTO ISOLATION AREAS WHERE EACH AREA HAS ISOLATION DEVICES AND CONTROLS IS CONFIGURED TO AUTOMATICALLY SHUT OFF THE SUPPLY OF CONDITIONED AND OUTDOOR AIR TO AND EXHAUST AIR FROM THE ISOLATION AREA.	THERE ARE INDEPENDENT VAV BOXES FOR EACH ZONE	SEE MECHANICAL PLANS
C403.2.2	VENTILATION	VENTILATION CFM AND OUTDOOR AIR CONTROL	WHERE MECHANICAL VENTILATION IS PROVIDED, SYSTEMS SHALL BE CAPABLE OF REDUCING OUTDOOR AIR TO THE MINIMUM REQUIREMENTS FROM CHAPTER 4 OF THE NYC MC	RTU SHALL HAVE ABILITY TO OPERATE AT MINIMUM REQUIRED VENTILATION RATES, PER REQUIREMENTS - LIST MINIMUM CFM PER SPACE TYPE	SEE MECHANICAL PLANS
C403.3.1	EQUIPMENT SIZING	HVAC SYSTEMS SIZING BASED ON LOAD CALCULATIONS	HEATING AND COOLING EQUIPMENT SHALL NOT EXCEED CALCULATED LOADS	SPECIFIED EQUIPMENT SIZED WITHIN LOAD CALCULATION LIMITS	SIGNED AND SEALED STATEMENT FROM ENGINEER CERTIFYING COMPLIANCE WITH ENERGY CODE
C403.4.1	THERMOSTATIC CONTROLS (MANDATORY)	THERMOSTATS FOR MECHANICAL ZONES	MINIMUM ONE THERMOSTAT/HUMIDISTAT REQUIRED PER ZONE	ONE THERMOSTAT IS PROVIDED FOR EACH ZONE	THERMOSTATS SHOWN ON MECHANICAL PLANS
C403.4.1.3	SET POINT OVERLAP RESTRICTION (MANDATORY)	VAV THERMOSTATS	ZONE THERMOSTAT OPERATION SHALL HAVE MINIMUM 5 °F DEAD BAND BETWEEN HEATING AND COOLING	EACH THERMOSTAT WILL BE PROGRAMMED AS REQUIRED	SEE MECHANICAL PLAN
C403.4.2	OFF-HOUR CONTROLS (MANDATORY)	ALL ZONES	ALL ZONE THERMOSTAT SHALL BE OPERATED VIA THERMOSTATIC SETBACK CONTROLS OPERATED VIA AN AUTOMATIC TIME CLOCK OR A PROGRAMMABLE CONTROL SYSTEM	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	SEE MECHANICAL PLANS
C403.4.2.1	THERMOSTATIC SETBACK (MANDATORY)	ALL ZONES	CONTROLS SHALL HAVE ABILITY TO SETBACK TEMPERATURES DOWN TO 55 °F (13°C), OR UP TO 85 °F	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	SEE MECHANICAL PLANS
C403.4.2.2	AUTOMATIC SETBACK AND SHUTDOWN (MANDATORY)	SAMPLE TEXT: ALL ZONES	CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY STARTING AND STOPPING THE SYSTEMS FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK, CAPABLE OF HAVING SETTINGS SAVED IN MEMORY FOR 10 HOURS DURING A LOSS OF POWER, AND A MANUAL SYSTEM "ON" OVERRIDE FOR UP TO TWO HOURS, OR AN OCCUPANCY SENSOR	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	SEE MECHANICAL PLANS
C403.4.2.2	AUTOMATIC START (MANDATORY)	SAMPLE TEXT: ALL ZONES	CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM AND AUTOMATICALLY ADJUSTING THE DAILY START TIME OF THE HVAC IN ORDER TO BRING EACH SPACE TO THE DESIRED TEMPERATURE.	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	SEE MECHANICAL PLANS
C403.4.3.2	TWO-PIPE CHANGE-OVER SYSTEM	SAMPLE TEXT: TWO PIPE CHANGE-OVER	DEAD BAND FOR CHANGE-OVER IS A MINIMUM OF 15 DEGREES F BASED ON O.A., MINIMUM OPERATION IN ONE MODE FOR 4 HOURS BEFORE CHANGE-OVER, HEATING AND COOLING SUPPLY TEMPERATURE NO MORE THAN 30 DEGREES F APART AT CHANGE-OVER POINT.	DEAD BAND CONTROLS AS PER REQUIREMENTS	SEE MECHANICAL PLANS
C403.5.1	INTEGRATED ECONOMIZER CONTROL	SAMPLE TEXT: ECONOMIZER CONTROL ON RTU-1, RTU-2	ECONOMIZER SYSTEMS SHALL BE INTEGRATED WITH THE MECHANICAL COOLING SYSTEM AND BE CAPABLE OF PROVIDING PARTIAL COOLING EVEN WHERE ADDITIONAL MECHANICAL COOLING IS REQUIRED TO PROVIDE THE REMAINDER OF THE COOLING LOAD. CONTROLS SHALL NOT BE CAPABLE OF CREATING A FALSE LOAD IN THE MECHANICAL COOLING SYSTEMS BY LIMITING OR OBLUSING THE ECONOMIZER OR ANY OTHER MEANS, EXCEPT AT THE LOWEST STAGE OF MECHANICAL COOLING.	ECONOMIZERS SYSTEMS ARE INTEGRATED WITH THE MECHANICAL COOLING SYSTEM AND CAPABLE OF PROVIDING PARTIAL COOLING, PER CONTROL SEQUENCE	SEE MECHANICAL PLANS
C403.5.3	AIR ECONOMIZERS	SAMPLE TEXT: AIR ECONOMIZERS, RTU-1	AIR ECONOMIZERS SHALL BE CONFIGURED TO PROVIDE UP TO 100% OF DESIGN SUPPLY AIR QUANTITY AS OUTDOOR AIR FOR COOLING. ECONOMIZER CONTROLS/DAMPERS CONFIGURED TO SEQUENCE DAMPERS WITH THE COOLING EQUIPMENT, FIXED DRY-BULB CONTROL, HIGH LIMIT SHUT-OFF WHEN OUTDOOR AIR TEMP > 65. SYSTEMS CAPABLE OF RELIEVING EXCESS OUTDOOR AIR DURING ECONOMIZER OPERATION.	AIR ECONOMIZER SYSTEM CONTROLS, AS PER REQUIREMENTS	SEE MECHANICAL PLANS
C403.5.5	ECONOMIZER FAULT DETECTION AND DIAGNOSTICS	HA/3 ECONOMIZER FAULT DETECTION AND DIAGNOSTICS	AIR-COOLED UNITARY DIRECT-EXPANSION UNITS AND VRF UNITS WHICH HAVE AN ECONOMIZER MUST INCLUDE A FAULT DETECTION AND DIAGNOSTICS SYSTEM WHICH COMPLIES WITH ITEMS 1-7 LISTED IN SECTION C403.5.5	RTU-1 INCLUDES ECONOMIZER WITH FAULT DETECTION AND DIAGNOSTIC CONTROLS, PER REQUIREMENTS	SEE MECHANICAL PLANS
C403.6.1	VARIABLE AIR VOLUME AND MULTIPLE-ZONE SYSTEMS	VAV SYSTEM SERVING ZONES 1 THROUGH 5	VAV SYSTEM WITH MULTIPLE ZONE, PRIMARY AIR TO EACH ZONE SHALL BE REDUCED TO A MINIMUM REQUIREMENTS BEFORE REHEATING, RECOOLING, OR MIXING TAKES PLACE.	CONTROL SEQUENCES PROVIDED AS REQUIRED	SEE MECHANICAL PLANS
C403.6.2	SINGLE-DUCT VAV SYSTEM, TERMINAL DEVICES	SINGLE DUCT VAV SYSTEM	TERMINAL DEVICES SHALL BE CAPABLE OF REDUCING PRIMARY SUPPLY AIR BEFORE REHEATING OR RECOOLING TAKES PLACE	CONTROL SEQUENCES PROVIDED AS REQUIRED	SEE MECHANICAL PLANS
C403.6.6	MULTIPLE ZONE VAV SYSTEM VENTILATION OPTIMIZATION CONTROL	MULTI-ZONE SYSTEMS WITH DOC OF ZONE BOXES	CONTROL SYSTEM SHALL HAVE AUTOMATIC CONTROLS CONFIGURED TO REDUCE OA INTAKE FLOW BELOW DESIGN RATES IN RESPONSE TO CHANGES IN SYSTEM VENTILATION EFFICIENCY	CONTROL SEQUENCES PROVIDED AS REQUIRED	SEE MECHANICAL PLANS
C403.6.8	SETPOINTS FOR DIRECT DIGITAL CONTROL	VAV BOX CONTROL, SET POINTS	SYSTEMS WITH DOC (DIRECT DIGITAL CONTROL) CONTROLLED VAV BOXES SHALL RESET BASED ON ZONE REQUIRING GREATEST PRESSURE		SEE MECHANICAL PLANS
C403.6.9	STATIC PRESSURE SENSOR LOCATION	VAV FANS	STATIC PRESSURE SENSORS USED TO CONTROL VAV FANS SHALL BE LOCATED SUCH THAT THE CONTROLLER SET POINT IS NOT GREATER THAN 1.2 INCHES W.C., WHERE THIS RESULTS IN ONE OR MORE SENSORS BEING LOCATED DOWNSTREAM OF MAJOR DUCT SPLITS, NOT LESS THAN ONE SENSOR SHALL BE LOCATED ON EACH MAJOR BRANCH TO ENSURE THAT STATIC PRESSURE CAN BE MAINTAINED IN EACH BRANCH.	STATIC SENSOR USED TO CONTROL VAV FANS SHALL BE AS REQUIRED	SEE MECHANICAL PLANS
C403.7.3	VENTILATION AIR HEATING CONTROL	RTU-1	UNITS THAT PROVIDE VENTILATION AIR AND OPERATE IN CONJUNCTION WITH HEATING/COOLING SYSTEMS SHALL NOT WARM SUPPLY AIR TO GREATER THAN 60F WHEN MAJORITY OF ZONES REQUIRE COOLING.	SAMPLE TEXT: CONTROL SEQUENCES PROVIDED AS REQUIRED	SAMPLE TEXT: SEE MECHANICAL SCHEDULE, M-40X, MECHANICAL CONTROL SEQUENCES, DRAWING M40X
C403.7.7	SHUTOFF DAMPERS	OUTDOOR AIR INTAKE, EXHAUST OPENINGS, STAIRWAY AND SHAFT VENTS	EACH OUTDOOR SUPPLY AIR AND EXHAUST AIR DUCTS SHALL BE PROVIDED WITH MOTORIZED DAMPERS TO SHUT OFF OR OPEN AS REQUIRED BY THIS SECTION. CLASS I MOTORIZED DAMPER WITH A MAXIMUM AIR LEAKAGE RATE OF 4CMF/FT ² OF DAMPER SURFACE AREA AT 1.0 INCH WATER GAUGE.	CLASS I MOTORIZED DAMPER WITH A MAXIMUM AIR LEAKAGE RATE OF 4CMF/FT ² OF DAMPER SURFACE AREA AT 1.0 INCH WATER GAUGE	SEE MECHANICAL PLANS
C403.8.2	MOTOR NAMEPLATE HORSEPOWER	EXHAUST FANS, EFF, EFF4	MOTOR SELECTION DOES NOT EXCEPT 1.5XHP FOR FANS LESS THAN 68HP	FAN HP < 8 HP HP = 1.5 * 5.58HP	SEE MECHANICAL PLANS
C403.8.3	FAN EFFICIENCY	FAN EFFICIENCY FOR RTU-1	MINIMUM FEG = 67	MINIMUM FEG = 70	SEE MECHANICAL PLANS
C403.11.1	DUCT AND PLENUM INSULATION AND SEALING	ALL DUCTWORK	SUPPLY AND RETURN DUCTS AND PLENUMS IN SHALL HAVE A MINIMUM OF R-6 WHERE LOCATED IN UNCONDITIONED SPACES AND R-8 MINIMUM WHERE LOCATED OUTSIDE THE BUILDING, WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-8.	UNCONDITIONED SPACES: R-6 CONDITIONED SPACES: NONE EXTERIOR WALL INSULATED >R-8	SEE MECHANICAL PLANS
C403.11.2	DUCT CONSTRUCTION	DUCTWORK	SHALL BE CONSTRUCTED AND ERECTED IN ACCORDANCE WITH THE NYC MC	DUCTWORK MUST BE CONSTRUCTED AND ERECTED IN ACCORDANCE WITH THE NYC MC	SEE MECHANICAL PLANS
C403.11.2.2	MEDIUM-PRESSURE DUCT SYSTEMS	MEDIUM PRESSURE DUCTWORK	DUCTS OPERATING BETWEEN 2" AND 3" W.G. SHALL BE INSULATED AND SEALED PER C403.11.1 AND MUST BE CLEARLY INDICATED ON THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH NYC MC	ALL MEDIUM PRESSURE DUCTS SEALED AS PER REQUIREMENTS AND INSULATED TO R-8.3	SEE MECHANICAL PLANS
C403.11.3.1	PROTECTION OF PIPING INSULATION	PIPING LOCATED OUTDOORS	ALL PIPING INSULATION IS PROTECTED FROM DAMAGE, INCLUDING THAT DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND. ADHESIVE TAPE IS NOT PERMITTED.	ALL OUTDOOR PIPING INSULATION IS PROTECTED FROM DAMAGE	SEE MECHANICAL PLANS
C403.12.2	FREEZE PROTECTION SYSTEM CONTROLS	HEAT TRACING OF OUTDOOR PIPING	FREEZE PROTECTION SYSTEMS SHALL INCLUDE AUTOMATIC CONTROLS SHALL SHUT OFF THE SYSTEMS WHEN OUTDOOR AIR TEMPERATURES ARE ABOVE 40°F OR WHEN THE CONDITIONS OF THE PROTECTED FLUID WILL PREVENT FREEZING	HEAT TRACING OF OUTDOOR PIPING SHALL INCLUDE AUTOMATIC CONTROLS THAT SHUT OFF THE SYSTEMS WHEN OUTDOOR TEMPERATURES ARE ABOVE 40°F OR WHEN THE CONDITIONS OF THE PROTECTED FLUID WILL PREVENT FREEZING	SEE MECHANICAL PLANS

	INSPECTION/TEST	PERIODIC (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER 08) OR OTHER CRITERIA	ECC OR OTHER CITATION
IB5	MECHANICAL, AND SERVICE WATER HEATING INSPECTIONS			
IB52	SHUTOFF DAMPERS, DAMPERS FOR STAIR AND ELEVATOR SHAFT VENTS AND OTHER OUTDOOR AIR INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE VISUALLY INSPECTED TO VERIFY THAT SUCH DAMPERS, EXCEPT WHERE PERMITTED TO BE GRAVITY DAMPERS, COMPLY WITH APPROVED CONSTRUCTION DRAWINGS. MANUFACTURER'S LITERATURE SHALL BE REVIEWED TO VERIFY THAT THE PRODUCT HAS BEEN TESTED AND FOUND TO MEET THE STANDARD.	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS; AMCA 5000	C402.5.5, C403.7.7; ASHRAE 90.1-6.4.3.4
IB53	HVAC-R AND SERVICE WATER HEATING EQUIPMENT: EQUIPMENT SIZING, EFFICIENCIES AND OTHER PERFORMANCE FACTORS OF ALL MAJOR EQUIPMENT UNITS, AS DETERMINED BY THE APPLICANT OF RECORD, AND NO LESS THAN 15% OF MINOR EQUIPMENT UNITS, SHALL BE VERIFIED BY VISUAL INSPECTION AND, WHERE NECESSARY, REVIEW OF MANUFACTURER'S DATA. POOL HEATERS AND COVERS SHALL BE VERIFIED BY VISUAL INSPECTION.	PRIOR TO FINAL PLUMBING AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C403.1, C403.2, C403.3, C403.7.5, C404.2, C404.5, C404.9, C405.10, C408; ASHRAE 90.1-6.3, 6.4, 6.5, 6.7, 7.4, 7.5, 7.8, 10.4.6, APPENDIX I
IB54	HVAC-R AND SERVICE WATER HEATING SYSTEM CONTROLS: NO LESS THAN 20% OF EACH TYPE OF REQUIRED CONTROLS AND ECONOMIZERS SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION. SUCH CONTROLS SHALL INCLUDE, BUT ARE NOT LIMITED TO: -THERMOSTATIC -SET POINT OVERLAP RETRICTION -OFF-HOUR -SHUTOFF DAMPER -ZONES -ECONOMIZERS -AIR SYSTEMS -VARIABLE AIR VOLUME FAN -SINGLE ZONE COOLING SYSTEMS -HYDRONIC SYSTEMS -COMPLEX MECHANICAL SYSTEMS SERVING MULTIPLE ZONES -VENTILATION -TEMPERATURE -HOT WATER SYSTEM -EXHAUST HOODS -RADIANT HEATING SYSTEMS -HVAC CONTROL IN GROUP R-1 SLEEPING ROOMS CONTROLS WITH SEASONALLY DEPENDENT FUNCTIONALITY: CONTROLS WHOSE COMPLETE OPERATION CANNOT BE DEMONSTRATED DUE TO PREVAILING WEATHER CONDITIONS TYPICAL OF THE SEASON DURING WHICH PROGRESS INSPECTIONS WILL BE PERFORMED SHALL BE PERMITTED TO BE SIGNED OFF FOR THE PURPOSE OF A TEMPORARY CERTIFICATE OF OCCUPANCY WITH ONLY A VISUAL INSPECTION. PROVIDED, HOWEVER, THAT THE PROGRESS INSPECTOR SHALL PERFORM A SUPPLEMENTAL INSPECTION WHERE THE CONTROLS ARE VISUALLY INSPECTED AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION DURING THE NEXT IMMEDIATE SEASON THEREAFTER. THE OWNER SHALL PROVIDE FULL ACCESS TO THE PROGRESS INSPECTOR WITHIN TWO WEEKS OF THE PROGRESS INSPECTOR'S REQUEST FOR SUCH ACCESS TO PERFORM THE PROGRESS SINPECTION. FOR SUCH SUPPLEMENTAL INSPECTIONS, THE DEPARTMENT SHALL BE NOTIFIED BY THE APPROVED PROGRESS INSPECTION AGENCY OF ANY UNRESOLVED DEFICIENCIES IN THE INSTALLED WORK WITHIN 180 DAYS OF SUCH SUPPLEMENTAL INSPECTION.	AFTER INSTALLATION AND PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION, EXCEPT THAT FOR CONTROLS WITH SEASONALLY DEPENDENT FUNCTIONALITY, SUCH TESTING SHALL BE PERFORMED BEFORE SIGN-OFF FOR ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES; ASHRAE GUIDELINE 1: THE HVAC COMMISSIONING PROCESS WHERE APPLICABLE	C403, C404, C408; ASHRAE 90.1-6.3, 6.4, 6.5, 6.6, 7.4, 7.5, APPENDIX I
IB55	HVAC-R INSULATION AND SEALING: INSTALLED DUCT AND PRING SHALL BE VISUALLY INSPECTED TO VERIFY PROPER INSULATION PLACEMENT AND VALUES. JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE VISUALLY INSPECTED FOR PROPER SEALING.	AFTER INSTALLATION AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS; SHACNA DUCT CONSTRUCTION STANDARDS; METAL AND FLEXIBLE	C403.11, C404.4, C404.5, MC 603.6; ASHRAE 90.1-6.3, 6.4.4, 6.5.2, 6.8.3, 7.4.3
IB56	DUCT LEAKAGE TESTING: FOR DUCT SYSTEMS DESIGNED TO OPERATE AT STATIC PRESSURES IN EXCESS OF 3 INCHES W.G., REPRESENTATIVE SECTIONS, AS DETERMINED BY THE PROGRESS INSPECTOR, TOTALING AT LEAST 25% OF THE DUCT AREA, PER ECC C403.2.7.1.3, SHALL BE TESTED TO VERIFY THAT ACTUAL AIR LEAKAGE IS BELOW ALLOWABLE AMOUNTS.	AFTER INSTALLATION AND SEALING AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS; SHACNA HVAC AIR DUCT LEAKAGE TEST MANUAL	C403.11; ASHRAE 90.1-6.4.4.2.2
IC	ELECTRICAL, POWER AND LIGHTING SYSTEMS			
IC1	ELECTRICAL ENERGY CONSUMPTION: THE PRESENCE AND OPERATION OF INDIVIDUAL METERS OR OTHER MEANS OF MONITORING INDIVIDUAL APARTMENTS SHALL BE VERIFIED BY VISUAL INSPECTION FOR ALL APARTMENTS AND WHERE REQUIRED IN A COVERED TENANT SPACE.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C405.5, C405.12; ASHRAE 90.1-8.4.3, 8.4.5, 8.4.6, 10.4.5
IC2	LIGHTING IN DWELLING UNITS: LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE VISUALLY INSPECTED TO VERIFY COMPLIANCE WITH HIGH EFFICIENCY REQUIREMENTS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C405.1; ASHRAE 90.1-9.1.1
IC3	INTERIOR LIGHTING POWER: INSTALLED LIGHTING SHALL BE VERIFIED FOR COMPLIANCE WITH THE LIGHTING POWER ALLOWANCE BY VISUAL INSPECTION OF FIXTURES, LAMPS, BALLASTS AND TRANSFORMERS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C405.3, C408; ASHRAE 90.1-9.1.1, 9.2, 9.5, 9.6, 9.7, 10CIV-101-07 (G)(3)(V)(C)(4; APPENDIX I
IC4	EXTERIOR LIGHTING POWER: INSTALLED LIGHTING SHALL BE VERIFIED FOR COMPLIANCE WITH SOURCE EFFICIENCY AND/OR THE LIGHTING POWER ALLOWANCE BY VISUAL INSPECTION OF FIXTURES, LAMPS, BALLASTS AND RELEVANT TRANSFORMERS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C405.4; ASHRAE 90.1-9.4.2, 10CIV-101-07 (G)(3)(V)(C)(4
IC5	LIGHTING CONTROLS: EACH TYPE OF REQUIRED LIGHTING CONTROLS, INCLUDING: -OCCUPANT SENSORS -MANUAL INTERIOR LIGHTING CONTROLS -LIGHT-REDUCTION CONTROLS -AUTOMATIC LIGHTING SHUT-OFF -DAYLIGHT ZONE CONTROLS -SLEEPING UNIT CONTROLS -EXTERIOR LIGHTING CONTROLS SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES	C405.2, C406; ASHRAE 90.1-9.4.1, 9.4.3, 9.7, APPENDIX I
IC6	ELECTRIC MOTORS (INCLUDING BUT NOT LIMITED TO FAN MOTORS): WHERE REQUIRED BY THE CONSTRUCTION DOCUMENTS FOR ENERGY CODE COMPLIANCE, MOTOR LISTING OR LABELS SHALL BE VISUALLY INSPECTED TO VERIFY THAT THEY COMPLY WITH THE RESPECTIVE ENERGY REQUIREMENTS IN THE CONSTRUCTION DOCUMENTS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C403.8, C405.6, C405.7, C405.8, C405.9; ASHRAE 90.1-8.4.4, 10.4, 10.8
ID	OTHER			
ID1	MAINTENANCE INFORMATION: MAINTENANCE MANUALS FOR MECHANICAL, SERVICE HOT WATER AND ELECTRICAL EQUIPMENT AND SYSTEMS REQUIRING PREVENTIVE MAINTENANCE SHALL BE REVIEWED FOR APPLICABILITY TO INSTALLED EQUIPMENT AND SYSTEMS BEFORE SUCH MANUALS ARE PROVIDED TO THE OWNER. LABELS REQUIRED FOR SUCH EQUIPMENT OR SYSTEMS SHALL BE INSPECTED FOR ACCURACY AND COMPLETENESS.	PRIOR TO SIGN-OFF OR ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING ELECTRICAL DRAWINGS WHERE APPLICABLE; ASHRAE GUIDELINE 4: PREPARATION OF OPERATING AND MAINTENANCE DOCUMENTATION FOR BUILDING SYSTEMS	C408.1.1, C408.2.5.2, C408.3.2, ASHRAE 90.1-4.2.2.3, 6.1.2.2, 6.12.3.5.2, 8.7.2, 9.7.2.2, 9.4.3.2.2



Stantec Consulting Services Inc

135 Engineers Road, Suite 200
Hauppauge, N.Y. 11788-4008
Tel. 631.424.8600
www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Consultants



Key Plan

Key Plan

AREA OF WORK
2,715 SQ FT



Notes

[illegible]

Permit-Sea



Client/Project

RICHMOND UNIVERSITY MEDICAL CENTER
TRANSFORMATIONAL GRANT

669 CASTLETON AVENUE, STATEN ISLAND, NY
SECOND FLOOR PROPOSED RENOVATION

Title
ENERGY CODE COMPLIANCE

Project No. 7024.02	Scale AS NOTED
------------------------	-------------------

Drawing No.	Sheet	Revision
-------------	-------	----------

EN-001.00 X of ##