

HVAC GENERAL NOTES (APPLICABLE TO ALL DRAWINGS)

GENERAL

1. THE TERM "CONTRACTOR", "THIS CONTRACTOR", "HVAC CONTRACTOR" OR ANY TEXT AND DRAWINGS INCLUDED IN THIS CONTRACT DOCUMENT (WHICH INCLUDES DRAWINGS AND SPECIFICATIONS) SHALL BE MEANT AND DIRECTED TO THE CONTRACTOR PERFORMING THE HEATING, VENTILATING AND AIR CONDITIONING (HVAC) WORK IN THIS PROJECT.
 2. THE ARCHITECT/ENGINEER FOR THE PROJECT WHO WILL ALSO BE REFERRED TO AS THE ARCHITECT/ENGINEER OF RECORD WILL BE THE FIRM WHOSE NAME AND ADDRESS IS LISTED IN THE TITLE BLOCK OF THE DESIGN DOCUMENT.
 3. ALL WORK SHOWN IN THE CONTRACT DRAWINGS AND INCLUDED IN THE SPECIFICATIONS SHALL BE CONSIDERED AS NEW WORK TO BE PROVIDED (DEFINED AS FURNISHED AND INSTALLED) BY THE HVAC CONTRACTOR. ONLY ITEM SPECIFICALLY INDICATED AS "EXISTING" OR "BY OTHERS" OR "BY OTHER TRADES" SHALL BE EXCLUDED FROM THE WORK PROVIDED BY THE HVAC CONTRACTOR. SYMBOL LIST SHOWING DIFFERENT LINE THICKNESS FOR EXISTING AND NEW COMPONENTS ARE MEANT ONLY FOR CLARITY. UNLESS SPECIFICALLY INDICATED AS "EXISTING" ALL COMPONENTS SHALL BE CONSIDERED TO BE NEW TO BE PROVIDED BY THE HVAC CONTRACTOR.
 4. IT SHALL BE EXPRESSLY UNDERSTOOD THAT ALL ITEMS INCLUDED IN THE CONTRACT DOCUMENTS ISSUED BY THE ARCHITECT/ENGINEERS SHALL BE INCLUDED IN THE BID PRICE OF THE CONTRACTOR UNLESS OTHERWISE, SPECIFIC ADD ALTERNATES ARE LISTED BY THE ARCHITECT/ENGINEER IN THE DOCUMENTS.
 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN IN WRITING THAT HE HAS ALL THE CONTRACT DOCUMENTS FOR THE PROJECT FROM THE ARCHITECT/ENGINEER. NO CLAIMS FOR ANY MISSING DOCUMENTATION WILL BE ACCEPTABLE.
 6. WHERE INFORMATION IN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS ARE INTERPRETED BY THE CONTRACTOR TO BE DUPLICATED, THE CONTRACTOR SHALL OBTAIN A WRITTEN APPROVAL OF HIS INTERPRETATION FROM THE OWNER BEFORE DELETING THE SCOPE OF WORK HE INTERPRETS AS BEING A DUPLICATION. IN THE ABSENCE OF SUCH WRITTEN APPROVAL, THE CONTRACTOR SHALL NOT EXCLUDE ANY ITEM SHOWN IN DIFFERENT PARTS OF THE CONTRACT.
 7. FOR EITHER CONTRACTOR'S INTERPRETATION OF DUPLICATION OR CONTRADICTION AS INDICATED ABOVE, THE OWNER'S DETERMINATION SHALL BE FINAL AND SHALL NOT ENTITLE THE CONTRACTOR TO ANY ADDITIONAL COMPENSATION.
 8. ALL WORK SHOWN ON THE CONTRACT DOCUMENTS ARE MEANT TO BE THE FINAL INTENT OF THE WORK. ANY WORK REQUIRED TO MEET THE FINAL INTENT OF THE DESIGN DOCUMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING SHALL BE PROVIDED BY THE HVAC CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER:
 - a. CUTTING AND PATCHING OF WALLS, FLOORS, CEILING, ROOFS, PARTITIONS;
 - b. REMOVAL AND REPLACEMENT OF SUSPENDED CEILINGS, ACCESS PANELS, ACCESS DOORS;
 - c. REMOVAL AND REPLACEMENT OF EXISTING ARCHITECTURAL, STRUCTURAL, PLUMBING, ELECTRICAL, FIRE PROTECTION TRADES AND, TELECOMMUNICATION, COMPUTER, SECURITY, PUBLIC ADDRESS, INTERCOM SYSTEMS WHICH INTERFERE WITH THE FINAL INTENT OF THE HVAC WORK.
 9. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT. UNLESS AND UNTIL SPECIFIC ITEMS ARE SHOWN IN OTHER TRADE DRAWINGS FOR REMOVAL AND REPLACEMENT FOR THE AREA WHERE THE FINAL HVAC DESIGN INTENT IS SHOWN, ALL WORK REQUIRED FOR OTHER TRADES TO PERFORM THEIR WORK TO ENABLE THE HVAC WORK SHOWN ON THESE DRAWINGS SHALL BE INCLUDED IN THE HVAC CONTRACTOR'S BID.
 10. ALL WORK SHOWN ON THE CONTRACT PLANS INCLUDING SCALED DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO CONVEY GENERAL INFORMATION ON THE MAGNITUDE OF WORK AND TO PROVIDE GENERAL ARRANGEMENT OF EQUIPMENT. THE CONTRACT DRAWINGS ARE NOT MEANT TO CONVEY ALL THE FIELD CONDITIONS, ALL BENDS, OFFSETS, ELEVATIONS ACCURATELY AND SHALL NOT BE USED AS THE BASIS TO ESTIMATE THE QUANTITY OF HVAC WORK. THE CONTRACTOR MAY MAKE CHANGES IN THE FORM OF SHOP DRAWINGS IF AND WHEN APPROVED IN WRITING BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
 11. THE CONTRACTOR SHALL SEEK WRITTEN CLARIFICATIONS TO SCOPE OF WORK, VISIT AND CAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK SO AS TO FAMILIARIZE HIMSELF OR HERSELF WITH EXISTING FIELD CONDITIONS, TO VERIFY DIMENSIONS AND TO VERIFY DIFFICULTIES THAT WILL BE ENCOUNTERED DURING THE EXECUTION OF THE WORK AND TO VERIFY EXACT EXTENT OF WORK REQUIRED, PRIOR TO SUBMITTING HIS PROPOSAL. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD ARE TO BE MADE BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 12. GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
 13. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL EXCEPT IN WAY OF STRUCTURAL STEEL, DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
 14. WHEREVER THE REQUIREMENTS AND REGULATIONS OF FEDERAL OR MUNICIPAL AUTHORITIES ARE MORE STRINGENT THAN THE REQUIREMENTS INDICATED ON THE DRAWINGS OR SPECIFICATIONS. THEN THESE MORE STRINGENT REQUIREMENTS SHALL TAKE PRECEDENCE OVER THE DRAWINGS OR SPECIFICATIONS AND SHALL BE MADE PART OF THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER. HOWEVER, WHERE THE DRAWING OR SPECIFICATIONS ARE MORE STRINGENT THAN FEDERAL OR LOCAL AUTHORITY REQUIREMENTS AND REGULATIONS, THE MORE STRINGENT SHALL APPLY AND THE WORK SHALL BE INCLUDED IN THE CONTRACT.
 15. THE CONTRACTOR SHALL PROVIDE PROTECTION FOR THE GENERAL PUBLIC AND CONSTRUCTION WORKERS IN AND AROUND THE CONSTRUCTION AREA. ADEQUATE BARRIERS SHALL BE PROVIDED TO EXERCISE CONTROL OF SAFE INGRESS AND EGRESS OF PREMISES. FIRE EXITS SHALL AT NO TIME BE BLOCKED.
 16. ALL EXISTING CONSTRUCTION AND EQUIPMENT SHALL BE PROTECTED BY EACH CONTRACTOR DURING THE ENTIRE PERFORMANCE OF THEIR WORK. EXISTING AREAS DISTURBED OR DAMAGED BY CONTRACTORS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 17. ALL UNUSED MATERIALS AND DEBRIS SHALL BE LEGALLY DISPOSED OF AWAY FROM THE PREMISES.
 18. HVAC AND MECHANICAL SYSTEMS SHALL BE MAINTAINED FULLY OPERATIONAL IN AREAS/SPACES OUTSIDE OF AREA OF WORK DURING CONSTRUCTION.
 19. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS TO AVOID CONFLICTS.
 20. WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THE CURRENT EDITION OF THE NEW YORK CITY CODES AND ALL LOCAL TOWNSHIP REQUIREMENTS.
 21. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.
 22. CONTRACTOR TO CONTACT BUILDING MANAGEMENT AND TENANT REGARDING DUCTWORK REMOVAL SCOPE OF WORK TO ENSURE THAT OTHER TENANTS THAT ARE TO STAY OPERATIONAL ARE NOT AFFECTED BY REMOVALS OF THE BASE BUILDING DUCTWORK.
 23. COORDINATE WITH BUILDING MANAGEMENT FOR ANY SERVICE INTERRUPTION OF EXISTING SYSTEMS AND GIVE NOTICE AS REQUIRED BY BUILDING RULES AND REGULATIONS
 24. THE LOCATION AND ELEVATIONS OF ALL PIPING, PANELS, EQUIPMENT AND/OR DUCTWORK THAT IS IN OR PASSING THROUGH BASE BUILDING SPACES AND/OR TENANT SPACES ARE TO BE COORDINATED WITH BUILDING MANAGEMENT AND INDICATED ON SHOP DRAWINGS BEFORE PROCEEDING WITH WORK

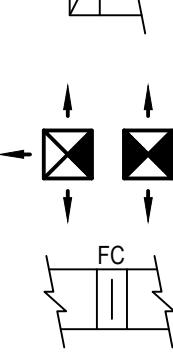
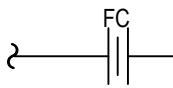
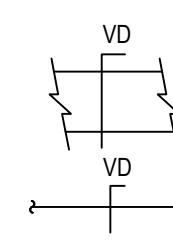
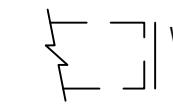
DEMOLITION NOTES

1. ALL DEMOLITION WORK SHALL BE SCHEDULED AND PHASED SO AS NOT TO INTERFERE WITH THE OPERATION OF THE FACILITY.
 2. WHEN DEMOLITION WORK REQUIRES TEMPORARY SHUT DOWN OF AN EXISTING OPERATING SYSTEM, THE DEMOLITION SHALL BE PERFORMED AT SUCH REGULAR TIME OR ON OVERTIME, WHEN DESIGNATED BY THE OWNER, AT NO ADDITIONAL COST.
 3. THE OWNER SHALL BE NOTIFIED OF THE ESTIMATED DURATION OF THE SHUTDOWN PERIOD AT LEAST TEN (10) DAYS IN ADVANCE OF THE DATE THE WORK IS TO BE PERFORMED.
 4. WORK SHALL BE ARRANGED FOR CONTINUOUS PERFORMANCE, INCLUDING OVERTIME, WHEN APPROVED BY THE OWNER, IF REQUIRED TO ENSURE EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY IF ESSENTIAL AND NECESSARY FOR THE WORK.
 5. PROVIDE ALL SCAFFOLDING, RIGGING, HOISTING AND SERVICES NECESSARY FOR REMOVAL OF ALL DEMOLISHED EQUIPMENT AND MATERIALS FROM THE PREMISES.
 6. THE CONTRACTOR SHALL NOT PERFORM ANY DEMOLITION AND REMOVAL WORK UNLESS A SCHEDULE HAS BEEN SUBMITTED AND APPROVED.
 7. ALL DIMENSIONS SHOWN ON THE DRAWING SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR.
 8. CONTRACTOR SHALL ASSURE THAT DEMOLITION AND INSTALLATION WORK WILL NOT CAUSE ANY DAMAGE TO EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL, PLUMBING OR ANY OTHER EXISTING SERVICES TO REMAIN.
 9. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH NEW CONSTRUCTION DRAWINGS TO DETERMINE DIMENSIONS AND SCOPE OF WORK TO INSURE THAT NO ITEMS OR SERVICES TO REMAIN ARE DISTURBED OR DAMAGED.
 10. CONTRACTOR SHALL PATCH TO MATCH CONSTRUCTION IN ALL AREAS WHERE REMOVALS ARE MADE.

NYC BUILDING DEPARTMENT NOTES

1. ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE 2014 BUILDING CODE, CITY OF NEW YORK, AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS.
 2. SPECIAL INSPECTIONS ARE REQUIRED FOR MECHANICAL SYSTEMS IN ACCORDANCE WITH THE FOLLOWING CODE SECTIONS:
 - 2.1. MECHANICAL SYSTEMS BC 1704.16
 - 2.2. MECHANICAL DEMOLITION BC 1704.20.4
 - 2.3. FIRE-RESISTANT PENETRATIONS AND JOINTS BC 1704.27, BC 1704.25
 3. IN ADDITION TO SPECIAL INSPECTIONS, THE FOLLOWINGS PROGRESS INSPECTIONS ARE REQUIRED FOR MECHANICAL SYSTEMS IN ACCORDANCE WITH THE FOLLOWING SECTIONS:
 - 3.1. ENERGY CODE COMPLIANCE INSPECTIONS BC 110.3.5
 - 3.2. SHUTOFF DAMPERS IB2, IIB2
 - 3.3. HVAC AND SERVICE WATER HEATING EQUIPMENT IB3, IIB3
 - 3.4. HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS IB4, IIB4
 - 3.5. HVAC INSULATION AND SEALING IB5, IIB5
 - 3.6. DUCT LEAKAGE TESTING IB6, IIB6
 - 3.7. ELECTRICAL MOTORS IIC6
 4. ALL INSPECTIONS AND TESTS SHALL BE MADE IN COMPLIANCE WITH BC 1704.
 5. VENTILATION FOR ALL AREAS COMPLIES WITH THE MINIMUM CODE REQUIREMENTS OF MC 401 AND MC 402.
 6. CERTIFICATES OF COMPLIANCE (28-116.4) SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
 7. ALL HVAC SYSTEMS AND EQUIPMENT COMPLY WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF THE STATE OF NEW YORK (MC 301.2).
 8. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE FOLLOWING CODE REFERENCES:
 - a. DUCT CONSTRUCTION MC 603
 - b. AIR INTAKES AND OUTLETS MC 401
 - c. FILTERS MC 605
 - d. FANS MC 503
 - e. ELECTRIC WIRING & EQUIPMENT MC 301.7
 - f. CONTROLS MC 405
 - g. HEATING CAPACITY MC 312
 - h. NOISE CRITERIA LEVELS BC 1207
 - i. PIPING INSULATION MC 604
 - j. INTAKE, EXHAUSTS, RELIEFS MC 401
 - k. PLenums AND CORRIDORS MC 602, MC 601
 9. MINIMUM TEMPERATURE TO BE MAINTAINED DURING HEATING SEASON: BC 1204 - WHEN 13 DEG F OUTSIDE.
 10. EQUIPMENT SHALL BE LISTED AND APPROVED AS REQUIRED BY MC 107, MC 102.
 11. ALL BUILDING DEPARTMENT FORMS REQUIRED, INCLUDING THOSE REQUIRED FOR SPECIAL INSPECTIONS, PROGRESS INSPECTIONS, CERTIFICATE OF COMPLIANCE, SERVICE EQUIPMENT PERMIT, EQUIPMENT USE PERMIT OR OTHER REASONS WITH REGARD TO THIS PROJECT SHALL BE COMPLETED AND FILED WITH THE NYC BUILDING DEPARTMENT BY THE CONTRACTOR.
 12. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER PROVIDED SPECIAL INSPECTORS.
 13. CONTRACTOR SHALL OBTAIN AND PROVIDE SERVICE EQUIPMENT PERMITS IN ACCORDANCE WITH SECTION 28-105.2 OF THE BUILDING CODE. SERVICE EQUIPMENT PERMITS SHALL BE REQUIRED FOR THE USE AND OPERATION OF THE EXHAUST FANS.
 14. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION DRAWING. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

SYMBOL LIST AND ABBREVIATIONS

	SMOKE DETECTOR	
	THERMOSTAT	
	NEW PIPE WITH DIRECTION OF FLOW	
	ECCENTRIC REDUCER	
	PIPE DROP	
	PIPE RISE	
	PITCH UP IN DIRECTION OF FLOW	
	PITCH DOWN IN DIRECTION OF FLOW	
	UNION	
	CONCENTRIC REDUCER	
	FLANGED CONNECTION	
	GATE VALVE	
	ANGLE GATE VALVE	
	GLOBE VALVE	
	DRAIN VALVE (TYPE AS SPECIFIED)	
	LOCK SHIELD VALVE	
	CHECK VALVE, SWING OR LIFT	
	BALL VALVE	
	THREE-WAY AUTOMATIC CONTROL VALVE	
	"Y" TYPE STRAINER W.BLOW OFF VALVE AND CAP	
	MANUAL AIR VENT	
	VIBRATION ISOLATOR IN HANGAR	
	THERMOMETER WELL	
	THERMOMETER END WELL	
	PRESSURE GAUGE WITH SIPHON	
	PRESSURE GAUGE ON TEE	
	SUPPLY DUCT GOING UP	
	SUPPLY DUCT GOING DOWN	
	RETURN DUCT GOING UP	
	RETURN DUCT GOING DOWN	
	3-WAY, 2-WAY CEILING SUPPLY DIFFUSER	
	FLEXIBLE CONNECTION	
	VOLUME DAMPER	
	W.M.S	

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M-004.00	MECHANICAL SPECIFICATIONS 3 OF 4
M-005.00	MECHANICAL SPECIFICATIONS 4 OF 4
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M-051.00	MECHANICAL DEMOLITION SECOND FLOOR EAST PLAN
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M-100.00	MECHANICAL FIRST FLOOR EAST PLAN
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M-302.00	MECHANICAL DETAILS SHEET No. 3
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M-500.00	MECHANICAL RISER DIAGRAM
M-501.00	MECHANICAL DUCT RISER DIAGRAM
M-600.00	MECHANICAL SECTIONS

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NO.	DATE	DESCRIPTION
5	02.16.21	ADDENDUM 1 
4	01.29.21	ISSUED FOR 100% CD
3	04.03.20	BID SET
2	10.07.19	100% SUBMISSION – ISSUED FOR BID
1	09.20.19	90% SUBMISSION – ISSUED FOR BID
ISSUE / REVISION		

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The Royal Coat of Arms of the United Kingdom, featuring a shield with a lion and unicorn, supported by a crouching lion and a unicorn, with a cross on the shield. The shield is surrounded by a circular border with the text 'SIGILLUM REIPUBLICÆ BRITANNICÆ' and 'ARMIS' at the top, and 'ARMIS' at the bottom. The entire emblem is set against a blue background.

CAMERON ENGINEERING & ASSOCIATES of NEW YORK, PLLC

PROJECT

ROOSEVELT ISLAND- SPORTSPARK RENOVATIONS

DRAWING
**MECHANICAL NOTES
SYMBOLS AND
ABBREVIATIONS**

SEAL & SIGNATURE	DATE	06.10.2019
	JOB NUMBER	19010
	DWG. No.	M-001.00
DRAWN BY	DK	1 OF 18

NYC DOB Number



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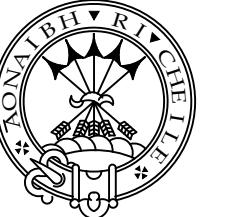
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PROJECT
ROOSEVELT ISLAND-
SPORTSPARK
RENOVATIONS

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DRAWING
MECHANICAL DUCT RISER
DIAGRAM

SEAL & SIGNATURE	DATE
	06.10.2019
JOB NUMBER	19010
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