

SHEET NAME NUMBER M-700 MECHANICAL RISER DIAGRAM M-701 MECHANICAL VRF DIAGRAM SHEET M-702 MECHANICAL VRF DIAGRAM SHEET 2 M-703 MECHANICAL VRF DIAGRAM SHEET 3 M-704 MECHANICAL CONTROL DIAGRAM SHEET M-705 MECHANICAL CONTROL DIAGRAM SHEET 2 E-001 | ELECTRICAL SYMBOLS AND DRAWING LIST E-051 ELECTRICAL SITE PLAN E-052 ELECTRICAL SITE LIGHTING PLAN E-100 ELECTRICAL POWER PLAN - 1ST FLOOR E-110 ELECTRICAL EQUIPMENT POWER PLAN - 1ST FLOOR E-111 ELECTRICAL EQUIPMENT POWER PLAN - ROOF E-121 ELECTRICAL LIGHTNING PROTECTION PLAN E-150 ELECTRICAL LIGHTING PLAN - 1ST FLOOR E-400 ELECTRICAL ENLARGED VIEWS - SHEET 1 E-500 ELECTRICAL DETAIL SHEET 1 E-501 ELECTRICAL DETAIL SHEET 2

## HVAC GENERAL NOTES:

- CONTRACTOR, WITH OWNER, SHALL PAY ALL FEES AND OBTAIN ALL PERMITS REQUIRED BY LOCAL AND STATES CODES.
- SHALL BE COORDINATED IN THE FIELD TO SUIT CONDITIONS. 3. ALL DUCTWORK TO BE KEPT AS HIGH AS POSSIBLE SO AS TO MAINTAIN CEILING HEIGHTS SHOWN ON ARCHITECTURAL DRAWINGS.

WHERE PIPING, LIGHTS AND DUCTWORK CONFLICT, DUCTWORK

- 4. ACCESS IS REQUIRED BELOW ALL DAMPERS, VALVES, AND EQUIPMENT. ACCESS DOORS TO BE PROVIDED IN GYPSUM CEILINGS AS REQUIRED.
- 5. FOR EXACT LOCATION OF CEILING DIFFUSERS AND REGISTERS REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. 6. FOR EXACT LOCATION AND ARRANGEMENT OF ROOM THERMOSTATS
- AND EXHAUST FAN SWITCHES, SEE THE ARCHITECT'S DRAWINGS. IF NONE IS SHOWN, THERMOSTAT/SWITCH SHALL BE NEXT TO THE LIGHT SWITCH, MAINTAINING A DISTANCE FROM THE LIGHT SWITCHES.
- 7. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. 8. DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER LATEST
- EDITION OF THE SMACNA DUCT CONSTRUCTION STANDARDS. 9. MOUNT THERMOSTAT ABOVE FINISHED FLOOR PER ARCHIECT, PROVIDE
- THERMOSTAT WITH HEAVY GUARDS OR LOCKABLE COVER APPROVED BY ARCH. & ENGINEER IN COMMON PUBLIC OR UNSUPERVISED AREA.
- 0. FOR EXACT LOCATION OF THERMOSTATS, GRILLES, AND DIFFUSERS REFER TO ARCHITECT DRAWINGS. ALL GRILLES AND DIFFUSERS PAINTED TO MATCH ADJACENT COLORS. COLORS TO BE APPROVED BY ARCH.&OWNER.
- . ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTWORK SHALL BE GALV. SHEET METAL UNLESS OTHERWISE SPECIFIED IN THE SPECS OR DWGS. WHERE BRANCH DUCTS ARE SERVING "WET" AREAS, ALUMINUM DUCT MATERIAL SHALL BE PROVIDED.
- 12. ALL STRAP HANGER & SUPPORTS FOR FLEXIBLE DUCTWORK SHALL BE SIZES & INSTALLED IN ACCORDANCE W/SMACNA STANDARDS, BUT NOT LESS THAT 1-1/2" WIDE.

- 13. PROVIDE MINIMUM OF R-6 ON DUCTWORK ABOVE CEILING. ALL FLEXIBLE DUCTWORK SHALL BE ALL METAL CONSTRUCTION
- CONSISTING OF A CORE STANDARD TRIPLE LOCK METAL FLEXIBLE DUCTING FOR STRENGTH AND AIRTIGHTNESS.
- UNITS OVER 2,000 CFM SHALL HAVE SMOKE DETECTORS ON THE SUPPLY AND RETURN DUCTWORK PER MCNYS CODE SECTION 606.2.
- 15. ALL EXTERIOR INSULATED DUCTWORK SHALL HAVE POLYISOCYANURATE BOARD WITH EPDM COVER ON DUCTWORK.
- 16. PROVIDE VOLUME DAMPERS IN LOW PRESSURE DUCTWORK FOR ALL SUPPLY, RETURN, AND EXHAUST OUTLETS, PROVIDE VOLUME DAMPERS (VD) AT EVERY DUCTWORK BRANCH, TAP AND SPLIT. DO NOT INSTALL VOLUME DAMPERS ON MEDIUM PRESSURE DUCTWORK. PROVIDE ACCESS DOORS IN DUCTWORK WHERE INDICATED OR REQUIRED
- FOR ACCESS TO SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: A. AUTOMATIC DAMPERS
- 18. PROVIDE INSULATED CONDENSATE DRAIN TO NEAREST FLOOR DRAIN FOR ALL AC UNITS. PROVIDE CONDENSATE PUMP WITH A MIN.CAPACITY OF 20'TDH@120GPH, 115/1/60, 6FT.PLUG IN, RESERVOIR, COMPLETE VALVE
- PACKAGE AND ACCESSORIES IF THE CONDENSATE CAN NOT BE DRAINED BY GRAVITY. 19. ALL MOTOR STARTERS LOCATED OUTDOORS OR EXPOSED TO WET OR DAMP
- CONDITIONS SHALL BE NEMA TYPE 4. 20. ALL COILS AND FILTERS SHALL BE INSTALLED ON TRACKS FOR EASY REMOVAL. INSTALLATIONS THAT REQUIRE DISASSEMBLY OF THE UNIT OR PLENUM FOR COIL REMOVAL ARE NOT ACCEPTABLE.

## COMMISSIONING NOTES

AGENCY TO PROVIDE COMMISSIONING SERVICES IN COMPLIANCE WITH 2020

ECCNYS. THE SPECIFICATIONS SHALL BE PROVIDED BY A COMMISSIONING

- AGENT TO BE SUBMITTED WITH DESIGN DOCUMENTS FOR BID. YSTEMS AND ASSOCIATED CONTROLS TO BE COMMISSIONED:
- 1. HEATING, COOLING, AIR HANDLING AND DISTRIBUTION, VENTILATION, EXHAUST SYSTEMS, AND THEIR RELATED AIR QUALITY MONITORING
- 2. AIR, WATER, AND OTHER ENERGY RECOVERY SYSTEMS 3 MANUAL OR AUTOMATIC CONTROLS, WHETHER LOCAL OR REMOTE, ON ENERGY USING SYSTEMS INCLUDING BUT NOT LIMITED TO TEMPERATURE CONTROLS, SETBACK SEQUENCES, AND OCCUPANCY BASED CONTROL.
- INCLUDING ENERGY MANAGEMENT FUNCTIONS OF THE BUILDING MANAGEMENT SYSTEM. 4. PLUMBING. INCLUDING INSULATION OF PIPING AND ASSOCIATED VALVES. DOMESTIC AND PROCESS WATER PUMPING, AND MIXING SYSTEMS.
- 5. MECHANICAL HEATING SYSTEMS AND SERVICE WATER HEATING SYSTEMS. 6. REFRIGERATION SYSTEMS. 7. RENEWABLE ENERGY AND ENERGY STORAGE SYSTEMS. 8. OTHER SYSTEMS, EQUIPMENT AND COMPONENTS THAT ARE USED FOR
- HEATING, COOLING OR VENTILATION AND THAT AFFECT ENERGY USE. COMMISSIONING PLAN SHALL FOLLOW ALL NECESSARY STEPS AS PER 2020

## TRAINING AND MANUALS:

UPON COMPLETION OF THE JOB, ALL APPLICABLE OPERATING AND SPECIFICATION MANUALS TO BE DELIVERED TO THE BUILDING STAFF. CONTRACTOR SHALL PROVIDE TRAINING FOR THE BUILDING MAINTENANCE STAFF TO ASSURE THAT THE SYSTEM IS MAINTAINED AND OPERATED

THE MAXIMUM AIR LEAKAGE RATE FOR ALL TYPES OF FENESTRATION ASSEMBLIES AND THEIR TEST PROCEDURE, FROM AN INDEPENDENT AND ACCREDITED LABORATORY, SHALL FOLLOW SECTION C402.5.2 AND TABLE 402.5.2 OF THE ECCCNYS.

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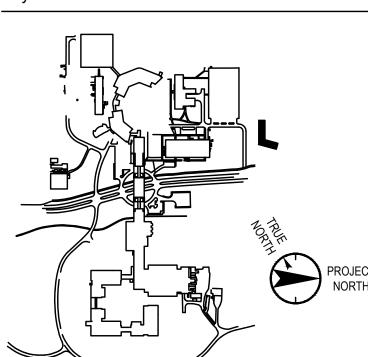
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Key Plan



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Vendor Name: COSENTINI Vendor Project No.: 210104 Discipline: Mechanical Drawn By: BC MECHANICAL SYMBOLS, ABBREVIATIONS, AND DRAWING LIST

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND

This plan is approved only for work indicated on the application specification sheet. All other matters shown are by an unlicensed person is a violation of Chapter 16 not to be relied upon, or to be considered as either being

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Alterations or additions to this engineering document Title VIII, Article 145 § 7209.2 of the New York

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Scale: NTS