THIS SET OF DRAWINGS IS PART OF A COMPLETE SET OF MECHANICAL AND ELECTRICAL DRAWINGS PREPARED FOR THE PURPOSES OF CONSTRUCTING THIS PROJECT. NO CONTRACTOR, FOR THE PURPOSES OF BIDDING, CONSTRUCTION, ETC. IS TO BE GIVEN A PARTIAL SET OF DRAWINGS WITHOUT HAVING BEEN GIVEN THE CHANCE TO REVIEW THE ENTIRE SET FIRST TO DETERMINE IF THEIR SCOPE OF WORK EXTENDS BEYOND THE CONTENTS WITH IN THIS SET.

THIS CONTRACTOR IS TO BE FAMILIAR WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE SPECIFICATIONS AND APPLY THOSE REQUIREMENTS TO THE CONSTRUCTION OF THIS PROJECT. A COPY OF THE SPECIFICATION ON DRAWINGS IS TO BE PRESENT AT THE JOBSITE AT ALL TIMES.

INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH 2018 INTERNATIONAL BUILDING CODE AND ALL LOCAL APPLICABLE CODES.

PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

THE DRAWINGS ARE INTENDED TO COVER SYSTEMS WHICH WILL FIT THE AVAILABLE SPACE AND WHICH WILL NOT INTERFERE WITH THE GENERAL STRUCTURAL DESIGN. THE CONTRACTOR IS TO CAREFULLY EXAMINE THE DRAWINGS FOR ALL BRANCHES OF WORK AND SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIAL AND APPARATUS INTO THE BUILDING. COORDINATE THE EXACT LOCATION OF EQUIPMENT AND EQUIPMENT CONNECTIONS WITH THE ENGINEER AND EQUIPMENT SUPPLIERS.

DRAWINGS ARE DIAGRAMMATIC FOR PIPING, CONDUITS AND DUCTWORK THAT IS NOT SHOWN IN DETAIL. SIZES OF PIPING, CONDUITS AND DUCTWORK AND THEIR LOCATIONS ARE INDICATED, BUT IT IS NOT INTENDED TO SHOW EVERY OFFSET, FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. THE ALIGNMENT OF PIPING, CONDUIT, OR DUCTWORK SHALL BE VERIFIED FROM THAT INDICATED ON THE DRAWINGS WITHOUT EXTRA EXPENSE TO THE OWNER WHERE NECESSARY TO AVOID STRUCTURAL OR MECHANICAL INTERFERENCES, OR TO AVOID THE WORK OF ANY OTHER TRADES.

CHECK AND VERIFY ALL DIMENSIONS, SITE CONDITIONS, DRAWINGS AND SPECIFICATIONS. REPORT ANY AND ALL DISCREPANCIES OR DEFICIENCIES TO THE ARCHITECT AT ONCE.

PERFORM LABOR IN A THOROUGH AND COMPLETE WORKMAN LIKE MANNER AND WITH ALL REASONABLE RAPIDITY TO THE SATISFACTION OF THE ENGINEER & OWNER.

ALL MECHANICAL EQUIPMENT SHALL BEAR THE LABEL OF AN APPROVED TESTING AGENCY.

D. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SHOULD ANY VARIANCE BETWEEN PLANS AND SPECIFICATIONS OCCUR WITH THESE INSTRUCTIONS. THE ENGINEER SHOULD BE CONTACTED IMMEDIATELY SO THAT ANY VARIATIONS IN INSTALLATION CAN BE KNOWN BY ALL PARTIES CONCERNED.

COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.

2. MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EACH MECHANICAL APPLIANCE SHALL BE MADE AVAILABLE TO THE LOCAL FIELD INSPECTOR ON THE JOB SITE AT THE TIME OF INSPECTION.

3. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH THE EXISTING BUILDING, SYSTEMS AND ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.

. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.

5. THESE DRAWINGS DO NOT INDICATE EVERY CHANGE OF DUCT OR PIPE SIZE (I.E. WHERE A DUCT OR PIPE IS TO CONNECT TO A PIECE OF EQUIPMENT, ETC.). WHERE DUCT OR A PIPE OF A DIFFERENT SIZE THAN THAT OF THE INLET OF SUCH EQUIPMENT CONNECTIONS, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AN APPROPRIATE TRANSITION AS REQUIRED.

5. ALL TRADES ARE RESPONSIBLE FOR THEIR OWN CUTTING AND PATCHING TO INSTALL WORK INDICATED. M.C. IS TO COORDINATE WITH THE G.C. OPENINGS REQUIRED IN WALLS AND FLOORS SO THAT THEY CAN BE PROPERLY FRAMED IN PRIOR TO CONSTRUCTION. NO CUTTING IS TO BE DONE WHICH WILL EFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING. ALL ROUND MASONRY OPENINGS THROUGH MASONRY ARE TO BE SAW CUT CORED. PROVIDE APPROPRIATE STEEL LINTELS WHERE REQUIRED - CONSULT WITH A STRUCTURAL ENGINEER FOR REQUIREMENTS.

7. ALL OPENINGS IN FIRE WALLS DUE TO PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.

ONE MANUFACTURER SHALL BE USED.

9. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.

20. ALL EQUIPMENT, PIPING, DUCTWORK. ETC.. SHALL BE SUPPORTED AS DETAILED. SPECIFIED. AND

REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION. . ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN

FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. 22. ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE AS NOTED OR DETAILED ON THE DRAWINGS. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR

DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE

JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. 3. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C—CLAMPS SHALL NOT BE PERMITTED.

4. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND

ELECTRICAL DRAWINGS AND SPECIFICATIONS.

5. FURNISH AND INSTALL ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, STRAINERS, UNIONS, TRAPS, FLANGES, OTHER APPURTENANCES REQUIRING ACCESS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS DOORS ARE NOT TO REDUCE THE FIRE RATING OF THE WALL IN WHICH THEY ARE INSTALLED.

26. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.

7. INSTALL THE TOP OF ALL THERMOSTAT BOXES APPROXIMATELY 48" A.F.F., PER THE OWNER'S REQUEST, AND TO CONFORM WITH ANY AND ALL APPLICABLE CODES AND REQUIREMENTS (I.E.

8. CONTRACTOR IS TO MAINTAIN A COMPLETE SET OF AS—BUILT DRAWINGS, UPDATED DAILY WHICH INDICATE AS-BUILT (TO INCLUDE BUT NOT LIMITED TO REVISED ROUTING CONFIGURATIONS, EQUIPMENT LAYOUTS, ETC. - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION) CONDITIONS. AT A MINIMUM THE CONTRACTOR IS TO UPDATE THE G.C.'S AS BUILT SET EACH WEEK. A COMPLETE SET OF AS-BUILT DRAWINGS IS TO BE PROVIDED PRIOR TO ISSUING OF SUBSTANTIAL

29. PROVIDE ONE SET OF BAG FILTERS INSTALLED IN THE DUST COLLECTOR AT TIME OF START UP AND ONE SET OF SPARE BAG FILTERS FOR OWNERS FUTURE USE.

GENERAL NOTES

30. A COMPLETE SET OF DRAWINGS OUTLINING THE EXISTING HVAC SYSTEMS WERE NOT AVAILABLE FOR USE DURING DESIGN. EXISTING CONDITIONS ARE SHOWN USING INACCURATE ORIGINAL DESIGN DRAWINGS AND LIMITED SITE SURVEY. THE CONTRACTOR IS TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS, CONSTRAINTS, LIMITATIONS AND AVAILABLE SPACE AND INCLUDE ALL REQUIRED TRANSITIONS, OFFSETS AND RELOCATIONS OF EXISTING EQUIPMENT, PIPING OR DUCTWORK AS IS NECESSARY FOR A COMPLETE INSTALLATION AS SHOWN ON THE DRAWINGS.

31. BIDDERS ARE REQUIRED TO VISIT THE SITE TO DETERMINE THE SCOPE OF WORK AND EXTENT OF DEMOLITION AND NEW WORK, EXISTING CONSTRUCTION TO REMAIN, POTENTIAL CONFLICTS, OBSTRUCTIONS AND SITE RELATED CHALLENGES PRIOR TO SUBMITTING BIDS.

32. THE LOCATION OF EXISTING DUCTWORK, PIPING, ETC IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING SYSTEMS BEFORE COMMENCING WORK.

33. NO DUCTWORK. PIPING OR EQUIPMENT IS TO BE ABANDONED IN PLACE. ALL EXISTING DUCTWORK, PIPING AND EQUIPMENT NOT BEING REUSED IS TO BE REMOVED AND PROPERLY DISPOSED OF BELOW NOTES.

34. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE TO DETERMINE EXACTLY HOW THE EQUIPMENT IS TO BE BROUGHT INTO THE BUILDING. I.E. LIMITATIONS DUE TO PATHWAYS TO MECHANICAL ROOMS, RIGGING REQUIREMENTS, OR DUE TO EXISTING SITE CONDITIONS, UTILITY LOCATIONS, ETC. EQUIPMENT MAY NEED TO BE SHIPPED TO THE SITE KNOCKED DOWN OR DISASSEMBLED TO MINIMIZE REQUIRED ENTRANCE OPENING SIZE. COORDINATE ALL LOGISTICS WITH

35. AT LOCATIONS WHERE NEW PIPING/DUCTWORK CONNECTS TO EXISTING, DETERMINE EXACT LOCATION, SIZE AND ELEVATION OF EXISTING EQUIPMENT AT SITE BEFORE INSTALLING NEW PIPING/DUCTWORK.

36. EXISTING EQUIPMENT, PIPING AND DUCTWORK BEING REMOVED AND NOT BEING REUSED IS TO BE PROPERLY DISPOSED OF IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, INCLUDING RECLAIM OF REFRIGERANT.

37. VERIFY EXACT BUILDING STRUCTURE CONSTRUCTION IN FIELD AND ADJUST DUCT SIZE OR LOCATIONS TO AVOID TRUSS LOCATIONS AND CROSS MEMBERS. DUCT DIMENSIONS INDICATED MAY BE ADJUSTED PROVIDING THAT THE TOTAL FREE AREA OF THE NEW DUCT BE NO LESS THA THE FREE AREA OF THE DUCT INDICATED ON THIS DRAWING.

38. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR, INSIDE DIMENSIONS.

39. ALL PRESSURE TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK (PIPING INSULATION IS APPLIED.

40. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.

41. THE CONTRACTOR IS TO PERFORM ALL TESTS (INCLUDING ALL TESTING AND FORMS REQUIRED FOR THE INSTALLATION OF THE NEW EQUIPMENT) AND INSPECTIONS, SUBMIT ALL REPORTS, AND WHERE REQUIRED BY STATE LAW. ARRANGE FOR AND PAY ALL ASSOCIATED FEES FOR AN ON-SITE INSPECTION BY CERTIFIED INSPECTORS. ALL NECESSARY REPORTS ARE TO BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION WITH COPIES FORWARDED TO THE ENGINEER DISPLAY OF REQUIRED CERTIFICATES IS TO BE IN GLASS ENCLOSED FRAMES TO BE HUNG IN THE MECHANICAL ROOM WHERE THE EQUIPMENT IS INSTALLED BY THE CONTRACTOR.

42. CONTRACTOR IS TO SUBMIT FINAL BALANCE REPORT TO CODE OFFICIAL, G.C., ENGINEER, ARCHITECT AND OWNER FOR REVIEW PRIOR TO RECEIVING BUILDING OCCUPANCY PERMIT. CONTRACTOR TO FOLLOW REQUIREMENTS OF SPECIFICATION PERTAINING TO BALANCE REPORTS.

43. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING DRAWINGS, SPECIFICATIONS AND FORMS REQUIRED TO INSTALL NEW EQUIPMENT (AS REQUIRED) TO THE AUTHORITIES HAVING JURISDICTION INCLUDING ALL REQUIRED FEES. THE CONTRACTOR MAY SUBMIT COPIES OF CONTRACT DRAWINGS AND SPECIFICATIONS, IF THE INSTALLATION IS REFLECTED ACCURATELY BY THESE DOCUMENTS.

44. CONTRACTOR SHALL, IN THE PRESENCE OF THE ENGINEER OF RECORD, DEMONSTRATE EQUIPMENT OPERATIONS, SYSTEM TO SYSTEM INTERFACING RELATIONSHIPS, AND DEMONSTRATE CONTROL

45. PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO THE G.C. AND OWNER AT THE TIME OF SYSTEM INSTALLATION COMPLETION. REFER TO SPECIFICATION FOR MORE REQUIREMENTS.

3. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF 46. ALL DUCTWORK IS TO BE CLASS II (MEDIUM DUTY) CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS FOR - 15" WATER GAGE. NOTE: DUCTWORK IS TO BE WELDED, GASKETED FLANGE TYPE OR QUICK DISCONNECT WITH CLAMPS - SPIRAL DUCTWORK IS NOT PERMITTED. SUPPORT PER SMACNA GUIDELINES AND AT EVERY JOINT/TRANSITION.

> 47. PRIOR TO CONSTRUCTION OF THE DUCT SYSTEM, THE CONTRACTOR IS TO SUBMIT A DETAILED SHOP DRAWING ILLUSTRATING ENTIRE DUCT SYSTEM INCLUDING DIMENSIONS. FITTINGS. SIZES. HANGER LOCATIONS, ETC. ALL FIELD VERIFIED.

48. GROUND DUST COLLECTION SYSTEM PER NFPA 91 AND THE MANUFACTURERS INSTALLATION REQUIREMENTS TO PREVENT ACCUMULATION OF STATIC ELECTRICITY IN THE SYSTEM.



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A LIMITED LIABILITY COMPANY

BRETT N. YONISH, P.E. CHRISTOPHER **G**. ALBRIGHT, **P.E**.

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REVISIONS		
MARK	BY	DATE
DATE:	DRAWING NO.	

5/01/2025 DRAWN BY: CHECKED BY:

PROJECT NO.

PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 49279, EXPIRATION DATE: 05-12-2026

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