

(DESIGN)

91.3°F

(MEAN COINCIDENT)

72.1°F

)21 ASHRAE FUNDAMENTALS WEATHER DATA SOURCE #

720355 - GREATER CUMBERLAND REGIONAL, MD

(HEATING)

12.1°F

GENERAL NOTES

- 1. THIS SET OF DRAWINGS IS PART OF A COMPLETE SET OF 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. SEE THE ARCHITECTURAL COVER SHEET FOR A FULL LIST OF DRAWINGS.
- 2. 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 IS TO BE PRESENT AT THE JOBSITE AT ALL TIMES.
- . INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH 2021 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.
- 6. 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.
- B. PERFORM LABOR IN A THOROUGH AND COMPLETE WORKMAN LIKE MANNER AND WITH ALL REASONABLE RAPIDITY TO THE SATISFACTION OF THE ENGINEER & OWNER.
- 9. ALL MECHANICAL EQUIPMENT SHALL BEAR THE LABEL OF AN APPROVED AGENCY AND THAT THE MECHANICAL EQUIPMENT WILL BE TESTED TO THE APPROPRIATE STANDARDS IN THE LOCAL JURISDICTION.
- 10. 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.
- 11. 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.
- 12. 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.
- 13. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
- 14. 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
- 15. THESE DRAWINGS DO NOT INDICATE EVERY CHANGE OF PIPE SIZE (I.E. WHERE A PIPE IS TO CONNECT TO A PIECE OF EQUIPMENT, ETC.). WHERE 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.
- 16. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
- 17. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
- 18. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- 19. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- 20. ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR.
- 21. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
- 22. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.
- 23. 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.
- 24. 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 COMPLETION.
- 25. ALL PRESSURE TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK OR PIPING INSULATION IS APPLIED.
- 26. 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.
- 27. 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 OF 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.
- 28. CONTRACTOR IS TO SUBMIT FINAL BALANCE REPORT TO OWNER FOR REVIEW PRIOR TO RECEIVING BUILDING OCCUPANCY PERMIT. CONTRACTOR TO FOLLOW REQUIREMENTS OF SPECIFICATION PERTAINING TO BALANCE REPORTS.
- 29. 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.

IMPORTANT NOTE:
THIS PROJECT INCLUDES AN ALTERNATE DEDUCT BID TO REMOVE INSTALLATION OF ONE OF THE SPECIFIED CHILLERS AND ASSOCIATED PUMPS FROM THE PROJECT. REFER TO DRAWING HO.5 FOR MORE INFORMATION.



PROFESSIONAL CERTIFICATION

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BE E, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAW OF THE STATE OF MARYLAND, LICENSE NO. 49279, EXPIRATION DATE: 05-12-202

CHRISTOPHER G. ALBRIGHT DATE 10/17/2025

CHILLER REPLACEMENT COLLEGE CENTER

COLLEGE

OMMUNITY

ALLEG

East Hills
Hills
Engineering
Associates
ALIMITED LIABILITY COMPANY

BRETT N. YONISH, P.E. Christopher G. Albright, P.E.

> 541 MAIN &TREET WINDBER, PA 15963 (814) 467-6877

REVISIONS			
MARK	BY		DATE
DATE: 10-17-2025		DRAW	ING NO.

C.G.A.

CHECKED BY:
C.G.A.

PROJECT NO.25-015

40 - 60

< 40

0.21 - 0.27

0.20 - 0.26

CONSERVATION CODE. CONDENSER WATER PIPING IS NOT REQUIRED TO BE INSULATED.

75

ALL PIPING INSULATION IS TO COMPLY WITH THE LATEST EDITION OF THE INTERNATIONAL ENERGY

0.5

0.5

0.5

1.0

1.0

1.0

1.0

1.0

1.5

CHILLED WATER