

- MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT ARE TO BE NEW AND BEAR THE UNDERWRITER'S LABORATORIES, INC., LABEL, AS APPROPRIATE. THE COMPLETE INSTALLATION IS SUBJECT TO THE APPROVAL OF THE ENGINEER.
- 2. ANYTHING DRAWN OR SPECIFIED IS NOT INTENDED TO CONFLICT WITH ANY LOCAL, MUNICIPAL STATE OR FEDERAL LAW, REGULATION OR ORDINANCE WHICH GOVERNS THE INSTALLATION OF ANY ELECTRICAL OR RELATED WORK. ITEMS ARE NOT TO BE INSTALLED IN CONFLICT WITH ANY CODE OR REGULATION. ANY CONFLICTS ARE TO BE RESOLVED WITH THE ENGINEER BEFORE INSTALLATION BY THE CONTRACTOR AT NO
- 5. THE CONTRACTOR IS TO BE SOLELY RESPONSIBLE FOR CONSTRUCTION, MATERIAL AND EQUIPMENT FURNISHED FOR THE CONTRACT UNTIL COMPLETION OF THE PROJECT AND FINAL ACCEPTANCE. DAMAGED WORK OR MATERIALS ARE TO BE REPLACED BY THIS CONTRACTOR AT HIS OWN EXPENSE.
- CHANGES NECESSARY DUE TO LACK OF COORDINATION OR BECAUSE OF POOR WORKMANSHIP, AS DETERMINED BY THE ENGINEER OR THE OWNER ARE TO BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COSTS.
- INSPECTION FEES, BACKCHARGES AND PERMITS AND CERTIFICATES REQUIRED FOR THE INSTALLATION, TESTS AND INSPECTIONS OF WORK PROVIDED UNDER THIS CONTRACT ARE TO BE PAID FOR BY THE CONTRACTOR.
- CUTTING AND PATCHING IN THE EXISTING BUILDING NECESSARY FOR THE INSTALLATION OF THE ELECTRICAL WORK ARE TO BE DONE BY THE CONTRACTOR PROVIDING THE WORK. PATCHING IS TO MATCH THE EXISTING MATERIALS AND FINISHES. WHERE PAINTED SURFACES ARE PATCHED, THE CONTRACTOR IS TO PAINT PATCHING TO MATCH THE EXISTING COLOR FINISHES WITH A MINIMUM OF A PRIME COAT AND TWO (2) FINISH COATS OF SHERWIN WILLIAMS OR APPROVED PAINT, COLOR AS SELECTED BY THE OWNER.
- . NO CUTTING IS TO BE DONE WHICH MAY IN ANY WAY AFFECT THE BUILDING STRUCTURALLY WITHOUT FIRST SECURING THE CONSENT OF THE ENGINEER.
- THE CONTRACTOR IS TO GUARANTEE FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE IN WRITING BY THE ENGINEER THAT MATERIAL, EQUIPMENT AND WORKMANSHIP, FURNISHED UNDER THE CONTRACT, ARE FREE FROM DEFECTS. THE CONTRACTOR IS TO REPLACE ANY EQUIPMENT OR MATERIAL FOUND DEFECTIVE WITHIN THE GUARANTEE PERIOD AT NO COST TO THE OWNER.
-). THE CONTRACTOR IS TO FURNISH ACCESS PANELS AS REQUIRED FOR ACCESS TO CONCEALED PULL BOXES, JUNCTION BOXES OR SIMILAR ITEMS WHERE NO OTHER MEANS OF ACCESS IS PROVIDED. ACCESS PANELS INSTALLED IN FIRE RATED CEILINGS OR WALLS ARE TO BE OF SIMILAR RATING.
- 10. FURNISH AND INSTALL NECESSARY STEEL ANGLES, BEAMS, CHANNELS, HANGER RODS AND OTHER SUPPORTS FOR EQUIPMENT AND PIPING FURNISHED UNDER THIS CONTRACT REQUIRING SUPPORT OR SUSPENSION FROM BUILDING STRUCTURE EXCEPT SUPPORT STEEL WHERE OTHERWISE NOTED ON THE PLANS.
- 11. GENERALLY, BLOCKING MATERIALS ARE TO BE METAL; HOWEVER, SHOULD WOOD BLOCKING BE UTILIZED AT ANY LOCATION. THE BLOCKING MUST BE MADE FIRE—RESISTANT.
- 12. WIRING IS TO BE CONCEALED IF POSSIBLE. CONCEALED (AND EXPOSED WIRING IS) TO BE INSTALLED IN CONDUIT: RIGID METALLIC CONDUIT TO BE INSTALLED WHERE EXPOSED TO PHYSICAL DAMAGE, AND EMT CONDUIT WHERE NOT SUBJECT TO PHYSICAL DAMAGE. SHORT "WHIPS" OF WIRING BETWEEN DEVICES MAY BE METALLIC CLAD (INTERIOR) OR OTHER NON-RIGID PRODUCT (LISTED FOR APPROPRIATE LOCATION) (I.E. CONNECTION TO PUMPS TO ALLOW FOR VIBRATION). ALL REQUIRED SUPPORTS, BUSHINGS, LOCKNUTS, ETC. TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 3. WIRE AND CABLE FOR FEEDERS, BRANCH CIRCUIT, CONTROL, ETC., ARE TO BE SOFT DRAWN <u>COPPER</u> CONDUCTORS, 600 VOLT, HEAT RESISTANT THERMOPLASTIC INSULATED, TYPE "THW", "THWN" OR "THHN" CONFORMING TO THE LATEST REQUIREMENTS OF THE HEREIN SPECIFIED CODES. NON-METALLIC SHEATHED CABLE (ROMEX) IS NOT PERMITTED. WIRING INSULATION MUST BE A MINIMUM OF 75 DEGREES "C" AND RATED FOR WET LOCATIONS AS REQUIRED.
- 14. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE MINIMUM WIRE SIZE FOR BRANCH CIRCUITS IS TO BE NO. 12 AWG, EXCEPT NO. 10 AWG MINIMUM SIZE IS TO BE USED IN RUNS WHERE DISTANCE FROM THE PANELBOARD TO FIRST OUTLET EXCEEDS 75 FEET DUE TO CONDUIT ROUTING.
- 15. WIRE AND CABLE ARE TO BE INSTALLED IN CONDUIT IN A MANNER NOT TO DAMAGE THE INSULATION. ONLY U.L. APPROVED WIRE PULLING COMPOUNDS ARE TO BE USED TO DECREASE THE FRICTION WHEN PULLING IN WIRES, SUCH AS "WIRE LUBE" BY IDEAL.
- 16. WHERE OPEN CABLE IS INSTALLED IN RETURN AIR PLENUM ABOVE CEILINGS, LISTED RETURN AIR PLENUM CABLE IS TO BE USED.
- 17. THE ENTIRE INSTALLATION MUST BE GROUNDED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE. ALL DEVICES, EQUIPMENT, BOXES, ETC. MUST BE CONNECTED TO A SOLID, INSULATED GREEN, COPPER GROUNDING
- 18. PRIOR TO BEGINNING INSTALLATION, COORDINATE FINAL LOCATIONS OF ALL SWITCHES, JUNCTION BOXES, CONDUIT, ETC. IN ALL AREAS WITH OWNER AND WITH EQUIPMENT TO BE FURNISHED AND INSTALLED BY
- 19. E.C. SHALL PROPERLY SEAL ALL PENETRATIONS AS REQUIRED PER UL LISTING OF WALL/FLOOR/CEILING. E.C. SHALL PROPERLY SEAL ALL PENETRATIONS AND CONDUITS TO EXTERIOR AS REQUIRED IN A PROFESSIONAL MANNER TO MAINTAIN WET AND WEATHERPROOF CONDITION.
- 20. WHERE EXISTING FIXTURES, OUTLETS, CONDUITS, ETC. INTERFERE WITH THE NEW WORK IN REMODELED AREAS, THE CONTRACTOR IS TO REMOVE THE EQUIPMENT AS REQUIRED. NEW CONDUITS, CONDUCTORS, JUNCTION BOXES, ETC. ARE TO BE INSTALLED FOR THE CIRCUITS AFFECTED IN THE AREA. WHERE FIXTURES, SWITCHES OR OTHER DEVICES ARE REMOVED AND UNUSED OPENINGS REMAIN, THE CONTRACTOR IS TO REMOVE THE BOX AND REPAIR AND FINISH THE OPENING TO MATCH THE ADJACENT SURFACES.
- 21. THE E.C. IS RESPONSIBLE FOR DEMOLITION WORK AND CORE DRILLING NECESSARY TO INSTALL ALL NEW CONDUITS IN ELECTRICAL DRAWING SET.
- 22. THE E.C. IS TO COORDINATE WITH OWNER IN ORDER TO DETERMINE WHAT ELECTRICAL ITEMS THE OWNER WOULD LIKE TO SALVAGE; THESE ITEMS ARE TO BE TURNED OVER TO OWNER. ALL OTHER ITEMS ARE TO BE PROPERLY DISPOSED OF BY THE E.C.
- 23. IN AREAS WHERE ONLY PART OF THE SPACE IS TO BE DEMOLISHED, THE CONTRACTOR IS TO MAINTAIN THRU—WIRING TO EXISTING LIGHTS, RECEPTACLES, EQUIPMENT, ETC. TO REMAIN AND BE REUSED. THE CONTRACTOR IS TO MODIFY EXISTING WIRING AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- 24. NO AS-BUILT ELECTRICAL DRAWINGS WERE AVAILABLE AS REFERENCE FOR EXISTING ELECTRICAL CIRCUITING, OVERCURRENT PROTECTION, WIRE SIZING, CONDUIT ROUTING OR SIZE, ETC. EXISTING INFORMATION SHOWN ON ELECTRICAL DRAWINGS HAS BEEN DERIVED FROM LIMITED FIELD SURVEYS OF THE EXISTING BUILDING EXACT CONDITIONS ARE TO BE VERIFIED BY THE E.C. IN THE FIELD.
- 25. WHERE EXISTING EQUIPMENT IS TO BE REMOVED, CONTRACTOR IS TO REMOVE EXISTING RECEPTACLES, WIRING AND BOXES IF NOT BEING REUSED UNLESS DIRECTED OTHERWISE.
- 26. THE CONTRACTOR IS TO DISCONNECT AND RENDER DEAD WIRING TO EQUIPMENT THAT IS TO BE REMOVED BY OTHER CONTRACTORS.
- 27. THE CONTRACTOR IS TO REUSE EXISTING CONCEALED CONDUITS AND BOXES WHEREVER POSSIBLE TO SUPPLY OR CONTROL NEW BRANCH CIRCUITS IN THE EXISTING BUILDING. IF EXISTING BOXES DO NOT COMPLY WITH THE CURRENT N.E.C. "CUBIC INCH CAPACITY" REQUIREMENTS, THE CONTRACTOR IS TO MODIFY OR REPLACE EXISTING BOX AS REQUIRED TO COMPLY WITH THE CURRENT EDITION OF THE N.E.C.
- 28. EXISTING WIRING TO REMOVED EQUIPMENT IS NOT TO BE REUSED, CONDUITS MAY BE REUSED. WIRING TO NEW EQUIPMENT AND RELOCATED EXISTING EQUIPMENT IS TO BE NEW UNLESS NOTED OTHERWISE
- 29. THE E.C. IS TO VISIT THE SITE IN ORDER TO DETERMINE THE EXTENT OF THE DEMOLITION WORK THE E.C. IS RESPONSIBLE FOR REMOVING ANY ELECTRICAL ITEMS AND/OR CONNECTIONS IN THE RENOVATED AREAS THAT HAVE NOT BEEN INDICATED BY THESE DRAWINGS AFTER COORDINATING WITH PROJECT MANAGER AND OWNER.
- 30. THE ENTIRE ELECTRICAL INSTALLATION IS TO CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE NATIONAL, STATE OR LOCAL CODES AND THE REQUIREMENTS OF THE LOCAL POWER
- * THE TERM CONTRACTOR OR ELECTRICAL CONTRACTOR IS TO APPLY TO THE CONTRACTOR OR SUB-CONTRACTOR PERFORMING THE ELECTRICAL WORK.

PROFESSIONAL CERTIFICATION

I 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. 50053, EXPIRATION DATE: 10-13-2026

BRETT NICHOLAS YONISH

DATE

DATE:

5/01/2

DRAWN BY:

CHECKED BY:
B.



DUST COLLECTION & WELD FUME EXTRACTION WOOD SHOP & WELDING AREA

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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**

BY

DATE

		DRAWING NO.	
DATE: 5/01/2	2025	DRAW	ING NO.
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B.N.Y.

24-14

ORIGINAL DRAWING SIZE = 24"x36"

NOTE: DO NOT SCALE DRAWING - EACH CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND ALL DIMENSIONS BEFORE BEGINNING ANY WORK. EACH CONTRACTOR IS TO FULLY COORDINATE THEIR WORK WITH THAT OF OTHERS. REFER TO THE CONTRACT AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.