

		ISSUES
1	11/12/2025	CONCEPTUAL DESIGN
2	12/12/2025	SCHEMATIC DESIGN
3	12/17/2025	STEEL MILL ORDER
4	1/23/2026	DESIGN DEVELOPMENT

△ REVISIONS

kW Mission Critical Engineering
 Contact: David Adams Phone: 703.926.0715
 Engineer: Matthew Fagert
 License #: 123456 Exp. Date: 00/00/0000

NOT FOR CONSTRUCTION

RVERFARM
Clarksville, AR

L	K	J	
G	E	C	A
H	F	D	B
P	N	M	

LEVEL 1 -
GROUNDING PLAN
- SEGMENT B

JOB US0049903.5614
SHEET

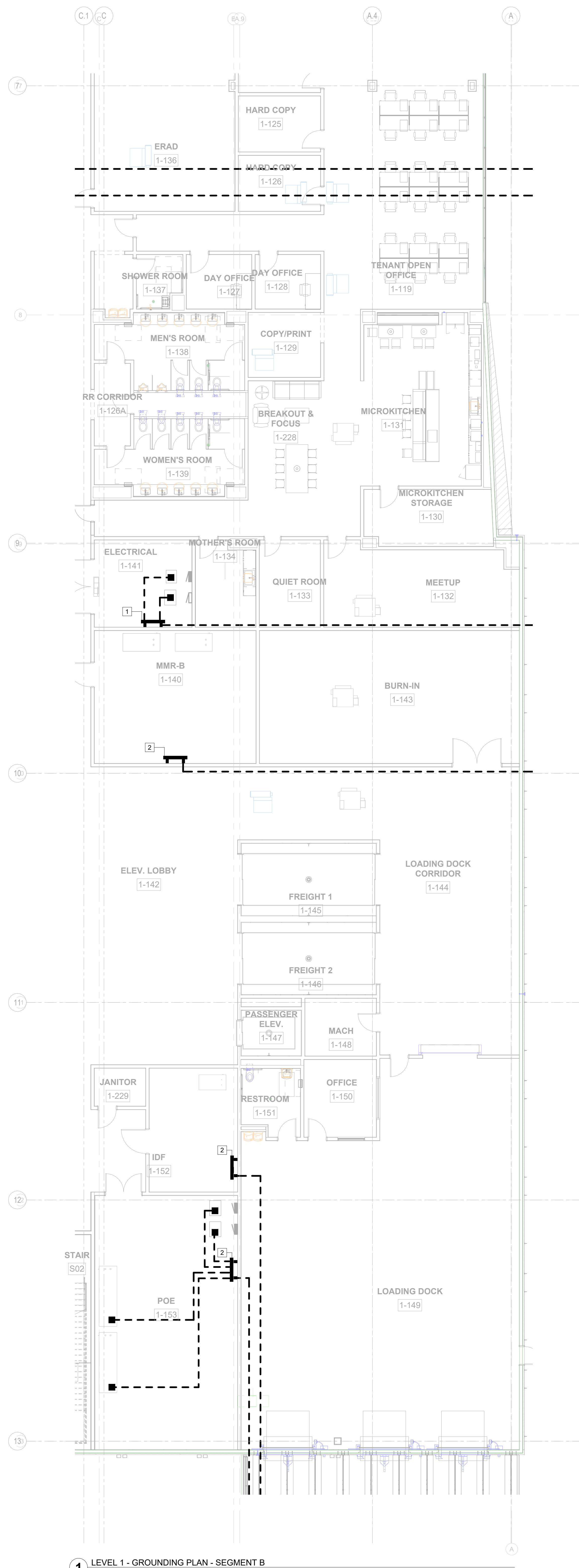
E03-01B

GENERAL NOTE

1. THESE REQUIREMENTS ARE IN ADDITION TO SPECIFICATIONS SECTION 260526 "GROUNDING & BONDING".
2. CONTACT SURFACES SHALL BE CLEANED OF CONTAMINANTS SUCH THAT DIRECT METAL TO METAL CONTACT IS MADE.
3. GROUNDING CONDUCTORS, LUGS, CONNECTORS, ETC. SHALL BE TYPED, STAMPED OR SILVER PLATED COPPER FOR GROUND BARS.
4. MOUNTING HARDWARE SHALL BE TORQUEU PER MANUFACTURER'S SPECIFICATIONS. TORQUE MARKS AND LOG ALL TORQUE VALUES.
5. LUGS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. USE ONLY SPECIFIC TOOL, AND DIE ONLY. NO CRIMPING TOOLS ALLOWED.
6. THREADED PRESSURE CONNECTORS SHALL NOT BE USED.
7. CONDUCTORS SHALL BE EQUIPPED WITH A PRINTED DESTINATION TAG. REFER TO DETAILS.
8. MULTIPLE CONNECTORS SHALL NOT BE SECURED BY THE SAME BOLT ASSEMBLY.
9. SECURE CONTACT WITH NONMETALLIC CLAMPS TO ELIMINATE THE NEED FOR TORQUE.
10. SUPPORT BARE COPPER GROUND CONDUCTORS EVERY 12".
11. BENDING RADIUS OF GROUNDING CONDUCTORS SHALL BE GREATER THAN 12" AND NO CASE SHALL INCUR BENDING ANGLE BE LESS-OR 90 DEGREES.
12. CONTRACTOR SHALL APPLY A "NO-OX" COATING BETWEEN ALL CONNECTIONS.
13. GROUND LUGS SHALL HAVE SHRINK WRAP INSULATION TO THE END OF THE LUG.
14. CABLE INSULATION SHALL NOT BE MORE THAN 0.2" FROM THE LUG.
15. LABEL ALL GROUND BARS WITH PERMANENTLY ENGRAVED NAMES.
16. GROUND BAR CONDUCTORS SHALL NOT SHARE CONDUIT OR BOXES WITH CONDUCTORS OF OTHER SYSTEMS.
17. GROUND CABLES TO INCLUDE COUNTERSINK PRECAST SHALL BE BURIED IN UNDISTURBED EARTH.
18. COORDINATE LIGHTNING PROTECTION SYSTEM DOWN TO THE GROUNDING REQUIREMENTS.
19. CABLES' DOWN LEADS SHALL BE INSTALLED BETWEEN THE LIGHTNING PROTECTION ACCESS FOR LIGHTNING PROTECTION CONTRACTOR TO TERMINATE DOWN LEADS ON GROUND RING. UNDER NO CIRCUMSTANCES SHALL CABLE COLLING BE USED AS DOWN CONDUCTORS.
20. BURIED AND INACCESSIBLE CONNECTIONS SHALL BE MADE TO THE GROUNDING REQUIREMENTS. ALL IRREVERSIBLE CRIMPS.
21. GROUNDING CONDUCTORS SHALL BE 80% BARE COPPER UNLESS OTHERWISE INDICATED.
22. REFER TO GROUNDING DETAILS FOR ADDITIONAL INFORMATION.
23. REFER TO LIGHTNING PROTECTION PLANS FOR ADDITIONAL REQUIREMENTS.

KEYED NOTES

- 1 POWER GROUND BARS SHALL BE CONNECTED DIRECTLY TO THE GROUND LOOPS WITH #4/0 BARE COPPER CONDUCTORS INSTALLED AT LEAST 2' UNDERGROUND / BELOW FINISHED FLOOR. EQUIPMENT SHALL BE BONDED TO THE POWER GROUND BAR WITH #2/0 GREEN INSULATED COPPER CONDUCTOR.
- 2 INSTALL TELECOM GROUND BARS AT THIS LOCATION. THESE GROUND BARS SHALL NOT BE USED FOR ANY ELECTRICAL OR MECHANICAL EQUIPMENT GROUNDS. COORDINATE WITH TELECOM FOR FINAL INSTALL LOCATION AND TERMINATIONS.



1 LEVEL 1 - GROUNDING PLAN - SEGMENT B
1/8" = 1'-0"