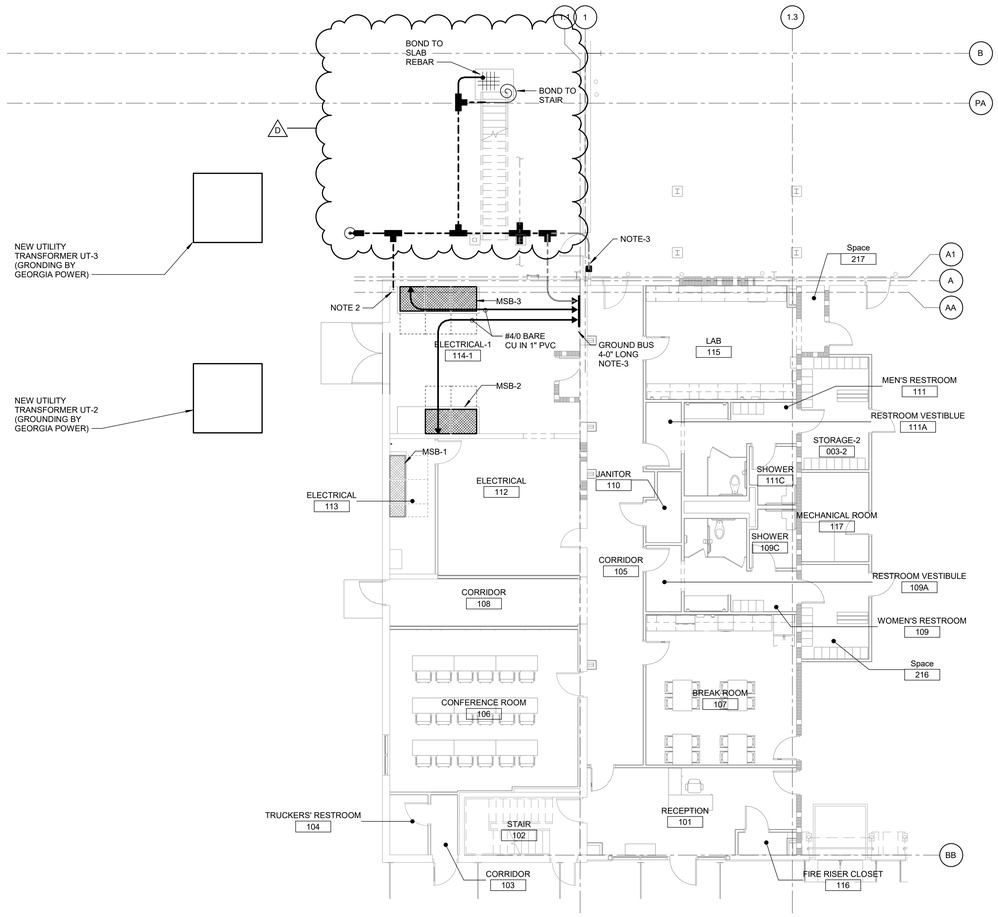
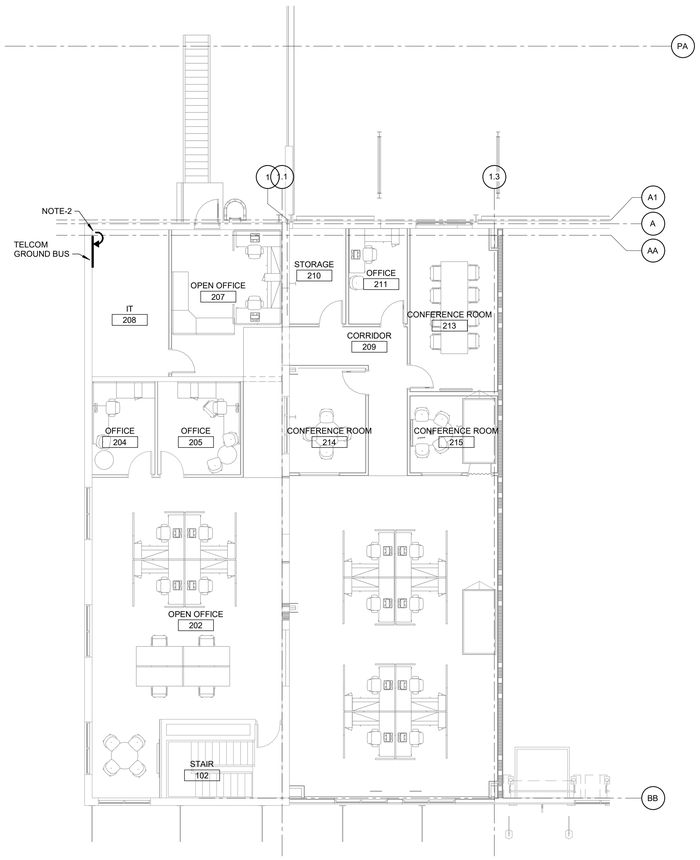


1 EG-112 ENLARGED FIRST FLOOR PLAN - OFFICE - GROUNDING

SCALE: 1/8" = 1'-0"



2 EG-112 ENLARGED SECOND FLOOR OFFICE PLAN - GROUNDING

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. THE MAIN GROUNDING CONDUCTOR SHALL BE #4/0 STRANDED COPPER AND SHALL BE INSTALLED AS FOLLOWS:
A. INTERIOR AND EXTERIOR GROUNDING CONDUCTORS SHALL HAVE A MINIMUM OF 30" COVER.

B. ALL BENDS IN GROUNDING CONDUCTORS SHALL HAVE A MINIMUM 12" RADIUS.

C. GROUNDING CONNECTIONS SHALL BE MADE AS FOLLOWS TO FORM A CONTINUOUS GROUNDING SYSTEM:
A. CADWELD OR THERMOWELD ALL CABLE TO CABLE.
B. CADWELD OR THERMOWELD CABLE TO GROUND ROD.
C. CADWELD OR THERMOWELD TO EXISTING GROUND.

D. LOCATE AND IDENTIFY ALL EXPOSED GROUNDING CONDUCTORS TO MINIMIZE PHYSICAL DAMAGE.

E. CONNECTIONS TO BUILDING STEEL COLUMNS SHALL BE MADE TO THE WEB PORTION OF THE COLUMN AT 18" ABOVE FINISHED FLOOR.

F. AVOID COLUMN FOOTINGS DURING INSTALLATION OF GROUND RODS.

G. INSTALL BONDING JUMPERS ACROSS BUILDING CONSTRUCTION JOINTS AND INSTALL HIGH IN THE BUILDING STEELWORK ADJACENT TO TRUSS CONNECTIONS TO COLUMNS.

H. IN AREAS WHERE GROUNDING CABLE CANNOT ENTER THE BUILDING FROM THE OUTSIDE BELOW THE GRADE BEAM, A 1-1/4" DIAMETER PVC SLEEVE SHALL BE FURNISHED AT A MINIMUM 18" DEPTH BELOW GRADE IN THE WALL U.N.O. SEAL OPENING AROUND EACH END OF CABLE AFTER CABLE INSTALLATION. IF RIGID GALVANIZED CONDUIT IS USED TO PROTECT GROUND CABLE IN LIEU OF PVC CONDUIT, TACK WELD CABLE TO CONDUIT AT BOTH ENDS.

I. MAXIMUM SPACING BETWEEN GROUND RODS SHALL BE 100'-0".

J. GROUNDING SYSTEM RESISTANCE SHALL MEASURE AT 5 OHMS OR LESS AT ANY POINT OF THE LOOP. INDIVIDUAL GROUND RODS OR GROUND ROD CLUSTERS SHALL NOT MEASURE IN EXCESS OF 25 OHMS OF GROUND RESISTANCE.

NOTES:

1. FIELD LOCATE AND BOND TO EXISTING BURIED GROUND RING CONDUCTOR IF AVAILIBLE.
2. ROUTE #4/0 BARE COPPER GROUND IN 1" PVC CONDUIT UP TO SECOND FLOOR TELECOM GROUND BUS.
3. GROUNDING BUS IN ELECTRICAL 114. AND TIE BACK TO EXISTING STRUCTURE NOT IN CONTRACT.

SSOE®

CONSULTANTS:

Issued For BULLETIN
06/06/2022
www.ssoe.com

SEAL ON THIS DOCUMENT AUTHORIZED BY:

GEORGIA REGISTERED No. PE035731 PROFESSIONAL ENGINEER FRANK M. ROWE 6/6/22

PROJECT INFORMATION:

BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:

ASCEND ELEMENTS
ASCEND ELEMENTS
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXXX-XX

NO.	DATE	SUBJECT
D	06/06/22	BULLETIN 1 - PKG 11E01
C	05/16/22	BULLETIN 2 - PKG 12E01
B	05/03/22	FOR CONSTRUCTION - PKG 11E01
A	04/28/22	FOR PERMIT - PKG 11E01

REVISION OR ISSUE

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PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: D. WOODS
CHECKED: F. ROWE

DRAWING TITLE:
ENLARGED GROUNDING PLANS

DRAWING NO:
EG-400

TB_REV 1.0

BIM 360://Battery Resources Brownfield Modifications/021019750_E20_SSOE.rvt
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