

SCHMIDT
CONSULTING GROUP, INC.
MECHANICAL ELECTRICAL STRUCTURAL
COMMUNICATIONS INDUSTRIAL
ALABAMA LICENSE NUMBER 2713
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SICG PROJECT 2016-131

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LEGEND

- AIR TERMINAL
- DOWN CONDUCTOR, CONCEAL INSIDE EXTERIOR WALL. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL
- LIGHTNING PROTECTION SYSTEM DEDICATED GROUND ROD.
- GROUND ELECTRODE. COORDINATE WITH STRUCTURAL
- COUNTERPOISE CONDUCTOR

SHEET NOTES

- COUNTERPOISE SHALL BE #4@ 24" MIN. 40" MAX. FROM FOUNDATION WALL. BURIER SHALL BE A MINIMUM DEPTH OF 30" BELOW GRADE. CONNECT TO MAIN GROUNDING BAR. COORDINATE WITH STRUCTURAL.
- STATE TEST WELL LOCATIONS AT GROUND POINT LOCATIONS.

LIGHTNING PROTECTION NOTES

- LOCATE AIR TERMINALS AS SHOWN ON SHOP DRAWINGS. TAKE CARE TO ENSURE THAT ALL POINTS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNERS, AND RIDGE ENDS, AND THAT MAXIMUM SPACING DOES NOT EXCEED DISTANCE SHOWN AND THAT MINIMUM PROJECTION ABOVE OBJECT PROTECTED IS 10".
- MAINTAIN HORIZONTAL OR DOWNWARD COURSE OF MAIN CONDUCTOR AND INSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90 DEGREES.
- SUPPORT ALL EXPOSED ROOF, DOWNLEAD, AND BONDING CABLES AT 3'-0" ON CENTER MAXIMUM.
- GROUND ELECTRODES SHALL BE INSTALLED AS SHOWN ON SHOP DRAWINGS BUT IN NO INSTANCE SHALL THEY BE LESS THAN 1'-0" BELOW GRADE AND 2'-0" FROM FOUNDATION WALL. DRIVEN RODS SHALL PENETRATE EARTH AT LEAST 10'-0".
- BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS REQUIRED BY NFPA AND L.P.I. CODES. BOND TO BUILDING STEEL WHERE POSSIBLE.
- INTERCONNECT LIGHTNING PROTECTION GROUND TO ELECTRIC, TELEPHONE, AND OTHER BUILDING GROUND SYSTEMS AS SHOWN ON SHOP DRAWINGS OR AS REQUIRED BY CODES.
- SYSTEM SHALL BE INSTALLED AS SHOWN ON SHOP DRAWINGS TO ENSURE PROPER CODE COMPLIANCE AND SYSTEM CERTIFICATION. ANY MAJOR VARIANCE SHALL ENTAIL RESUBMITTAL AND NEW APPROVAL.
- LIGHTNING PROTECTION DESIGN UTILIZES ALUMINUM COMPONENTS ABOVE THE ROOF IN ORDER TO MAINTAIN COMPATIBILITY WITH THE ALUMINUM/GALVALUME GALVANIZED METAL ROOF AS REQUIRED BY THE LIGHTNING PROTECTION CODES. ALL MATERIAL BELOW THE ROOF SHALL BE COPPER.
- LIGHTNING PROTECTION LAYOUT IS FOR INTENT ONLY. ACTUAL DESIGN OF LIGHTNING PROTECTION SYSTEM SHALL BE COORDINATED WITH SPECIFICATIONS AND SHOP DRAWINGS.
- ALL SEALANT MATERIALS SHALL BE COORDINATED WITH THE ROOFING SUPPLIER TO ENSURE ANY WARRANTIES ARE NOT INVALIDATED.
- WHERE STEEL COLUMNS ARE INBEDDED IN CONCRETE THEY SHALL BE BONDED TO THE FOUNDATION SLAB REBAR. CONTRACTOR SHALL COORDINATE WITH STEEL ERECTOR.
- LIGHTNING PROTECTION SYSTEM SHALL NOT VOID ROOF WARRANTY AND SHALL COME WITH UL LIGHTNING PROTECTION INSPECTION CERTIFICATE CERTIFIED TO UL 95A.

ISSUE DATE

ISSUE FOR BID	2018.05.25
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CHECKED BY: TAN

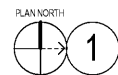
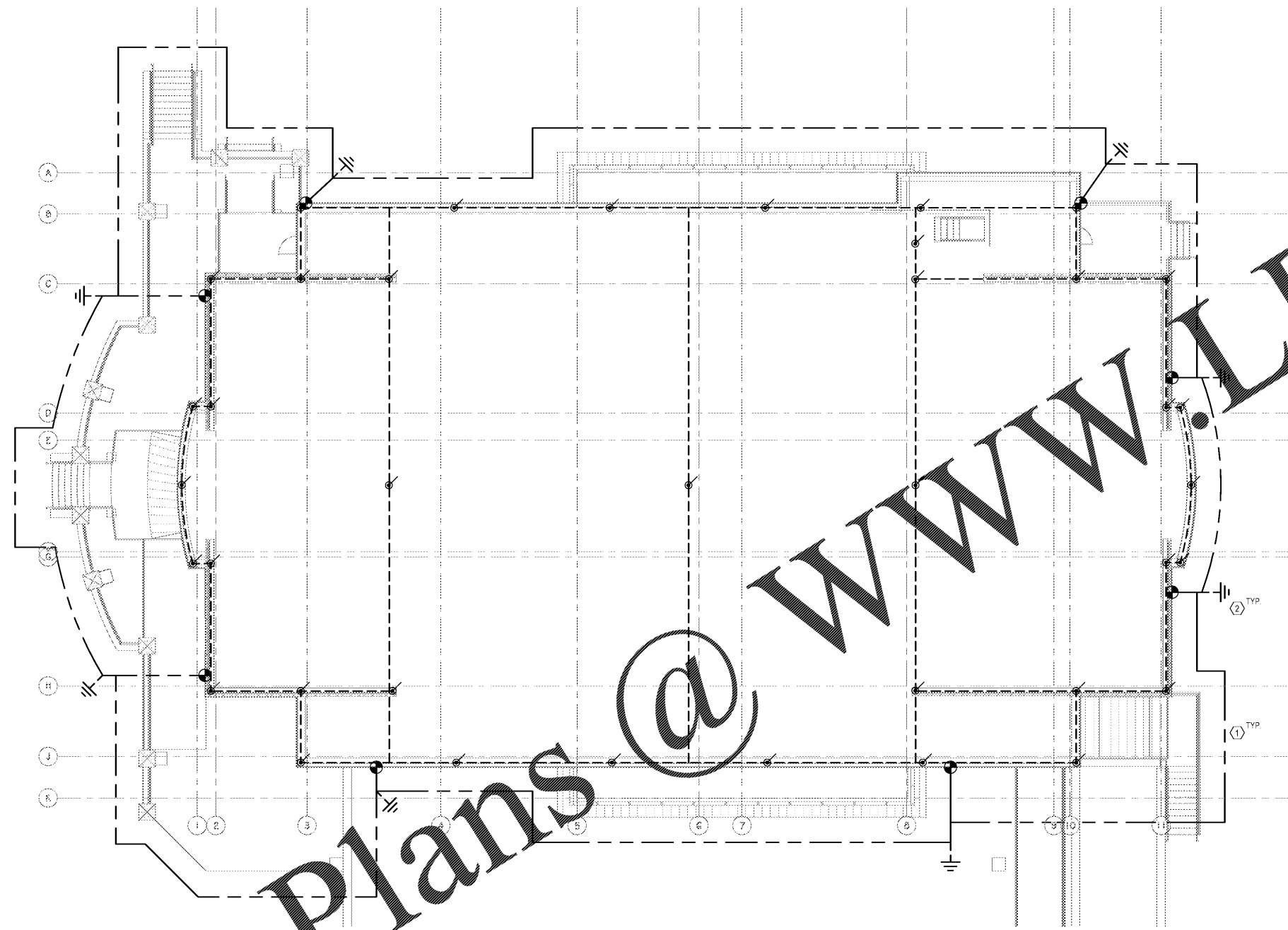
SIMULATION LABORATORY
BUILDING - USA JOB #16-07
MOBILE, ALABAMA
ABC #2017372
GMC# AMOB160019



LIGHTNING PROTECTION PLAN

E304

Sheet ___ of ___



LIGHTNING PROTECTION PLAN
SCALE: 1/8"=1'-0"

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