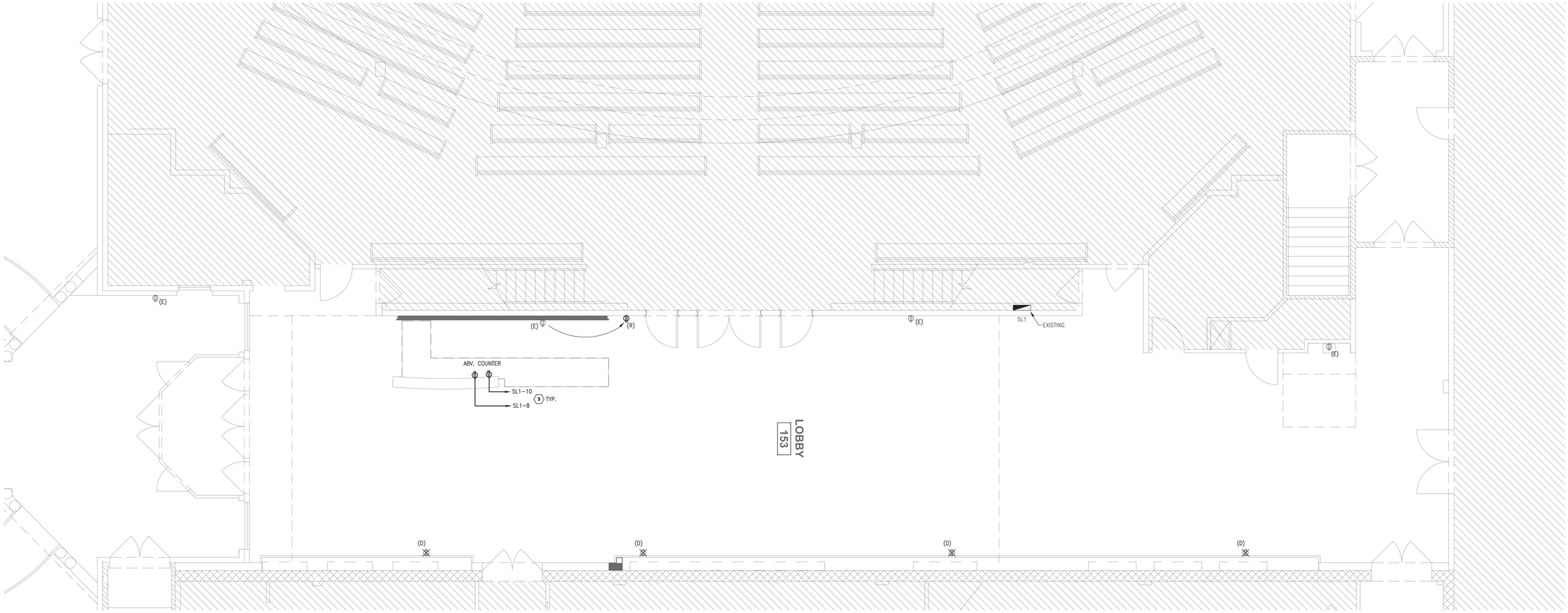

01 LOBBY ELECTRICAL POWER PLAN - LEVEL 1
1/4" = 1'-0"

ELECTRICAL SYMBOL LEGEND □PARTIAL□

□ALL SYMBOLS NOT NECESSARILY USED□

SYMBOL	DESCRIPTION	MOUNTING
	SIMPLEX RECEPTACLE, NEMA 5–20R	18" AFF UNO
(D)	EXISTING RECEPTACLE TO BE DEMOLISHED (D) (LOCATION APPROX. FROM 1995 PLANS)	18" AFF UNO
(E)	EXISTING (E) RECEPTACLE TO REMAIN, U.N.O. (LOCATION APPROX. FROM 1995 PLANS)	18" AFF UNO
(R)	RELOCATED (R) RECEPTACLE (VERIFY COMPLIANCE WITH SPECS)	18" AFF UNO
	DUPLEX RECEPTACLE, NEMA 5–20R	18" AFF UNO
GFCI	DUPLEX RECEPTACLE, NEMA 5–20R, GFCI	18" AFF UNO
IG	DUPLEX RECEPTACLE, NEMA 5–20R, ISOLATED GROUND	18" AFF UNO
	QUAD RECEPTACLE, NEMA 5–20R	18" AFF UNO
IG	QUAD RECEPTACLE, NEMA 5–20R, ISOLATED GROUND	18" AFF UNO
GFCI	QUAD RECEPTACLE, NEMA 5–20R, GFCI	18" AFF UNO
	WALL MOUNT SPECIAL PURPOSE RECEPTACLE	18" AFF UNO
	SPECIAL PURPOSE RECEPTACLE	18" AFF UNO
	FLUSH MOUNT DUPLEX RECEPTACLE	FLR/CLG AS NOTED ON PLANS
	FLUSH MOUNT QUAD RECEPTACLE	FLR/CLG AS NOTED ON PLANS
	POKE THRU DEVICE	FLOOR
	FLOOR MOUNTED OR POKE THRU OUTLET FOR POWER & VOICE/DATA	FLOOR
J	JUNCTION BOX	AS RE□'D
J	WALL MOUNTED JUNCTION BOX	AS RE□'D
	TELEPHONE OUTLET	AS RE□'D
	FLUSH MOUNT TELEPHONE OUTLET	FLR/CLG AS NOTED ON PLANS
	COMBINATION TELEPHONE/DATA OUTLET	AS RE□'D
	FLUSH MOUNT TELEPHONE/DATA OUTLET	FLR/CLG AS NOTED ON PLANS
	DATA OUTLET	AS RE□'D
	FLUSH MOUNT DATA OUTLET	FLR/CLG AS NOTED ON PLANS

NOTES□
1. REFER TO SHEET E301 FOR COMPLETE LIST OF ELECTRICAL SYMBOLS.
2. REFER TO ARCHITECTURAL PLANS FOR FULL EXTENT OF DEMOLITION.

□EYNOTES "⓪"

NOTE: NOT ALL KEYNOTES APPEAR ON EVERY 1ST FLOOR POWER PLAN.

1. VERIFY LOCATION, LOAD, AND TERMINATION REQUIREMENTS WITH THE FINAL AUDIO, VISUAL, & LIGHTING (AVL) PLANS.
2. THERE ARE EXISTING RECEPTACLES IN AREA TO BE DEMOLISHED THAT ARE NOT SHOWN. (REFER TO GENERAL NOTE 'E', ORIGINAL 1995 PLANS, AND ARCHITECTURAL DEMO PLANS.) IF THE RECEPTACLES ARE IN GOOD CONDITION, COMPLY WITH CODE, AND CAN BE WARRANTED FOR ONE YEAR, THEY MAY BE RELOCATED AND REUSED. PROVIDE NEW COVER–PLATE IF EXISTING IS DAMAGED OR CANNOT BE COMPLETELY CLEANED.
3. REFERENCE AVL PLANS FOR ADDITIONAL, NEW BRANCH CIRCUITS IN AREA.
4. FIELD VERIFY THAT DESIGNATED CIRCUIT IS NOT IN USE. DESIGNATION IS BASED ON 1995 PLANS (PORTIONS OF WHICH ARE ILLEGIBLE). MEASURE PEAK PANEL 'EL1B' LOAD TO CONFIRM IT IS LESS THAN 140A. SEE ALSO PANEL SCHEDULE. CONTACT ARCHITECT OR ENGINEER FOR DIRECTION IF NECESSARY. (TYPICAL FOR ALL NEW CIRCUITS.)
5. EXISTING RECEPTACLES SHALL BE RELOCATED SLIGHTLY (APPROX. 12") FOR NEW WALL FINISH.
6. VERIFY FINAL LOCATION AND REQUIREMENTS WITH AVL PLANS.
7. DEMO (E) FLOOR RECEPTACLE AND REPAIR FLOOR.
8. PROVIDE 277V POWER TO NEW EXHAUST FANS FROM LOCAL LIGHTING CIRCUIT WITH ON–OFF SWITCH ON WALL. FIELD VERIFY THAT RESULTING CIRCUIT LOAD WILL NOT EXCEED 16A. COORDINATE WITH MECHANICAL CONTRACTOR.
9. FIELD VERIFY THAT DESIGNATED CIRCUIT IS NOT IN USE. DESIGNATION IS BASED ON 1995 PLANS (PORTIONS OF WHICH ARE ILLEGIBLE). MEASURE PEAK PANEL 'EL1A' LOAD TO CONFIRM IT IS LESS THAN 100A. SEE ALSO PANEL SCHEDULE. CONTACT ARCHITECT OR ENGINEER FOR DIRECTION IF NECESSARY. (TYPICAL FOR ALL NEW CIRCUITS.)
10. RELOCATE (E) RECEPTACLES TO ABOVE LOWER CABINET IF NECESSARY.
11. REWORK AND EXTEND EXISTING POWER TO RELOCATED VAV BOX. FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH MECHANICAL CONTRACTOR.

INITIAL ELECTRICAL TESTING

EXISTING 120/208V PANELS WILL BE REUSED FOR RELOCATED AND NEW CIRCUITS. EXISTING 1995 PLANS ARE NOT LEGIBLE AND SOME REMODELS HAVE OCCURRED SINCE 1995. THERE ARE ALSO BREAKERS THAT ARE IDENTIFIED AS "SPARE" ON PANEL DIRECTORIES BUT ARE IN THE "ON" POSITION, SO ADDITIONAL UNKNOWN LOADS MAY EXIST.

THEREFORE, EXISTING TOTAL LOADS ON PANELS ARE UNKNOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND AVAILABLE CIRCUITS, SUCH AS AVAILABLE SPARES AND CIRCUITS/BREAKERS THAT ARE FREED UP FROM DEMOLITION, AND REPORT ANY SIGNIFICANT DISCREPANCIES AND/OR CONCERNS TO THE ARCHITECT AND ENGINEER.

EXISTING PANELS 'EL1A', 'EL2A', 'EL2B', AND 'SL2' SHALL BE MONITORED FOR A MINIMUM OF 30 DAYS WITH RECORDING–TYPE, 3–PHASE ELECTRICAL METERS BEFORE BEGINNING CONSTRUCTION. REPORT THE PEAK LOAD TO THE ENGINEER. SEE ALSO KEYNOTES FOR ADDITIONAL DETAILS.

GENERAL NOTES

A. REFER TO SHEET MEP001 FOR MEP GENERAL NOTES APPLICABLE TO ALL PLANS AND ALL MEP WORK. REFER TO SHEET E301 FOR ELECTRICAL SYMBOLS LEGEND AND TO LEFT FOR A PARTIAL LEGEND. REFER TO SHEET MEP002 FOR SPECIFICATIONS.

B. REFER TO AVL PLANS AND ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS FOR EXACT LOCATION OF ALL WIRING DEVICES AND ADDITIONAL REQUIREMENTS.

C. THERE ARE SOME ELECTRICAL PLANS FROM THE ORIGINAL 1995 BUILDING PLANS. REQUEST AN ELECTRONIC COPY FROM THE OWNER OR ARCHITECT AND REVIEW. INCLUDE SUFFICIENT LABOR AND TEST EQUIPMENT TO MAKE A THOROUGH FIELD INVESTIGATION OF ALL ELECTRICAL SYSTEMS THAT ARE AFFECTED BY THIS REMODEL. CONTACT THE ARCHITECT OR ENGINEER WITH ANY DISCREPANCIES OR CONCERNS FOUND OR FOR FURTHER DIRECTION.

D. INFORMATION SHOWN ON THESE PLANS IS BASED ON INITIAL SITE SURVEY, INFORMATION FROM OTHERS, AND IN SOME CASES IS ASSUMED IN ORDER TO OUTLINE THE ELECTRICAL SCOPE OF WORK. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK AND ORDERING MATERIALS.

E. REFER TO ARCHITECTURAL PLANS FOR THE FULL EXTENT OF DEMOLITION AND PERFORM DEMOLITION ACCORDINGLY. ONLY A FEW SPECIFIC DEMOLITION AND/OR RELOCATION NOTES ARE GIVEN HERE. THE FULL EXTENT OF DEMOLITION IS NOT SHOWN ON ELECTRICAL PLANS. ENSURE THAT NO AREAS OR SYSTEMS OF THE BUILDING WHICH ARE TO REMAIN IN SERVICE ARE ADVERSELY AFFECTED. NOTE WHICH EXISTING CIRCUITS ARE FREED FOR REUSE IN THE REMODEL.

F. ALL FLOOR CUTTINGS SHALL BE COORDINATED WITH STRUCTURAL DRAWINGS FOR RESTRICTIONS. COORDINATE WITH STRUCTURAL ENGINEER AND GENERAL CONTRACTOR.

G. PROVIDE POWER TO VAV BOX CONTROLS IN REMODELED AREAS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITY OF BOXES.

H. FOR EACH EQUIPMENT ITEM NOT PROVIDED WITH CORD AND PLUG CONNECTION, THE CONTRACTOR SHALL VERIFY THE EQUIPMENT CONTAINS AN INTEGRAL UNIT SWITCH COMPLYING WITH NEC ARTICLE 422–25. IF THE EQUIPMENT HAS NO UNIT SWITCH, PROVIDE A LOCK–OFF DEVICE AT BRANCH CIRCUIT BREAKER FEEDING THE EQUIPMENT.

I. PERMANENTLY CONNECTED APPLIANCES RATED OVER 300VA OR 1/8 HP SHALL HAVE A DISCONNECTION MEANS WITHIN SITE OR BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION PER NEC 422.III. PROVIDE NECESSARY DISCONNECTING MEANS AS REQUIRED.

J. ALL HEATING EQUIPMENT SHALL BE PROVIDED WITH LOCKABLE DISCONNECT SWITCHES WITHIN SIGHT OF EQUIPMENT OR PROVIDED WITH LOCK–OPEN CIRCUIT BREAKER.

K. CONTRACTOR SHALL PROVIDE NO. 10AWG MINIMUM CONDUCTORS FOR BRANCH CIRCUITS AT 120 VOLTS/20AMPS OVER 60 FT LINEAR LENGTH. FOR CIRCUITS OF 277 VOLTS OVER 120 FT OF LINEAR LENGTH, PROVIDE NO. 10AWG MINIMUM. FOR OTHER VOLTAGES AND PHASES: ADJUST CONDUCTOR SIZE AS REQUIRED TO MAINTAIN VOLTAGE DROP AND INCREASE RACEWAY SIZES FOR LARGER WIRE AS REQUIRED.

L. DO NOT USED 15 AMP RECEPTACLES ON 20AMP CIRCUITS FOR AVL EQUIPMENT CIRCUITS. PROVIDE 20 AMP RATED (NEMA 5–20R) RECEPTACLES. COORDINATE OUTLET CONFIGURATION WITH EQUIPMENT MANUFACTURERS' REQUIREMENTS.

M. ALL RECEPTACLES SHALL BE MOUNTED 18"A.F.F. (MIN.) TO COMPLY WITH ADA REQUIREMENTS. REFER TO ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS FOR EXACT LOCATION OF ALL WIRING DEVICES. DO NOT SCALE FROM THIS DRAWING.

N. ANY POWER AND SPECIAL SYSTEMS SHUTDOWN REQUIRED SHALL BE COORDINATED WITH THE OWNER.

O. ALL COVER PLATES SHALL BE NYLON. COORDINATE FINISH WITH ARCHITECT PRIOR TO PURCHASE.

P. ALL DATA AND TELE/DATA OUTLETS SHALL HAVE 3/4" CONDUIT ROUTED TO 6" ABOVE CEILING WITH PULLCORD AND NYLON BUSHING, U.N.O.

Q. ALL BRANCH CIRCUITS SHALL HAVE SEPARATE, DEDICATED NEUTRAL CONDUCTOR (NO MULTI–WIRE BRANCH CIRCUITS SHALL BE PERMITTED).

R. PROVIDE P–TOUCH LABEL ON ALL RECEPTACLE FACE PLATES TO INDICATE PANEL AND CIRCUIT NUMBER.

S. MEASURE LOADS AFTER SUBSTANTIAL COMPLETION AND MAKE CIRCUIT CHANGES AS FOLLOWS:
   a. MEASURE AS DIRECTED DURING PERIOD OF NORMAL SYSTEM LOADING.
   b. PERFORM LOAD–BALANCING CIRCUIT CHANGES OUTSIDE NORMAL OCCUPANCY/WORKING SCHEDULE OF THE FACILITY AND AT TIME DIRECTED, AVOID DISRUPTING CRITICAL 24–HOUR SERVICES SUCH AS FAX MACHINES AND ON–LINE DATA–PROCESSING, COMPUTING, TRANSMITTING, AND RECEIVING EQUIPMENT.
   c. AFTER CIRCUIT CHANGES, RECHECK LOADS DURING NORMAL LOAD PERIOD. RECORD ALL LOAD READINGS BEFORE AND AFTER CHANGES AND SUBMIT TEST RECORDS.
   d. TOLERANCE: DIFFERENCE EXCEEDING 10 PERCENT BETWEEN PHASE LOADS, WITHIN A PANELBOARD, IS NOT ACCEPTABLE. REBALANCE AND RECHECK AS NECESSARY TO MEET THIS MINIMUM REQUIREMENT.

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04/13/17

The seal appearing on this document was authorized by M. BRYAN CHADWICK, P.E. 96694 on 04-13-2017. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of FourPoint MEP. TBPE # RM #F-17595.

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DATE: 04.12.2017
REVISIONS:
PROJECT NO.: 16054
SHEET TITLE:
**PHASE I-
LOBBY
ELECTRICAL POWER
PLAN**
SHEET NO.:
E115

FILE: G:\PROJECTS\PDD\PDD1611 – Binnerri Church Remodel\Drawings\E115 – PDD1611 – PH1.dwg
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