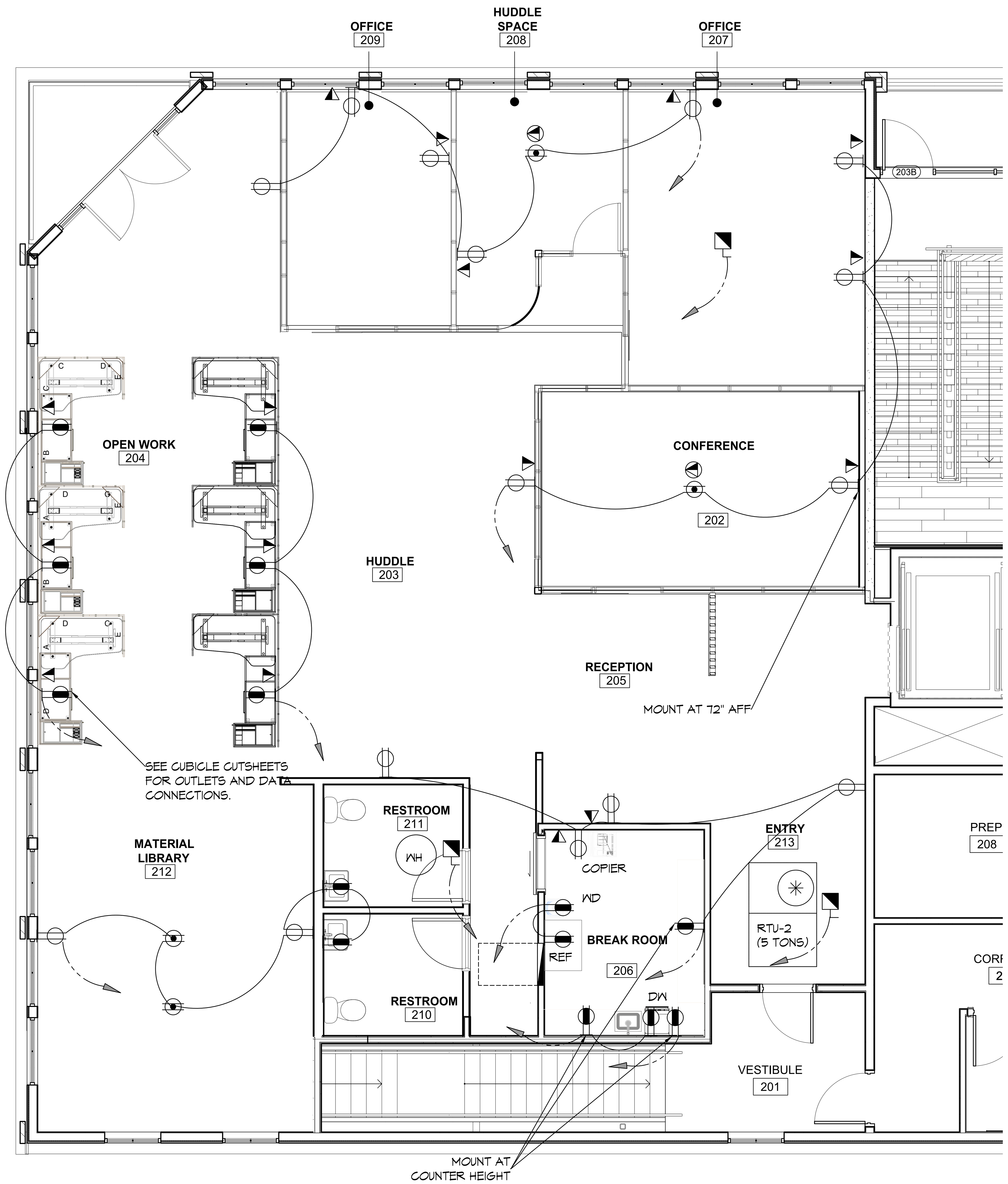


1 ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

GENERAL POWER NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRE AND CONDUIT SIZES FOR MECHANICAL EQUIPMENT TO BE INSTALLED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
7. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
8. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
9. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE ¾" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, ¾" SCHEDULE 80 PVC FOR EXTERIOR USE ABOVE GRADE AND 1" SCHEDULE 40 PVC FOR EXTERIOR USE BELOW GRADE, BURIED A MINIMUM OF 18" FOR NON-VEHICLUAR TRAFFIC AREAS AND 36" IN VEHICULAR TRAFFIC AREAS. EMT SHALL BE USED WITH METAL STUD CONSTRUCTION AND ALL ASSEMBLY OCCUPANCIES. 6 FT LENGTH MC CABLE IS ALLOWED ABOVE DROPPED CEILING. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS, AND EXTERIOR FITTINGS SHALL BE CAST BOXES WITH NEMA 3R COVER(S).
10. CONTRACTOR SHALL INSTALL WIRING, CIRCUIT BREAKERS AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
11. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE. MAINTAIN A MAXIMUM VOLTAGE DROP OF 3%.
12. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF. ALL RECEPTACLES IN THE KITCHEN AREA SHALL HAVE GROUND FAULT PROTECTION.
13. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71 & 250-72.
14. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
15. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
16. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL AND THE FIRE DISTRICT. CONTRACTOR SHALL PROVIDE A COMPLETE FIRE ALARM SUBMITTAL PACKAGE TO THE STATE FIRE MARSHAL FOR APPROVAL PRIOR TO COMMENCING WORK. SUBMITTAL SHALL INCLUDE FLOOR PLANS, WIRING DIAGRAMS, DEVICE CUT SHEETS. BATTERY CALCULATIONS, ETC.
17. EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.
18. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
19. VERIFY ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.

PANEL SCHEDULE

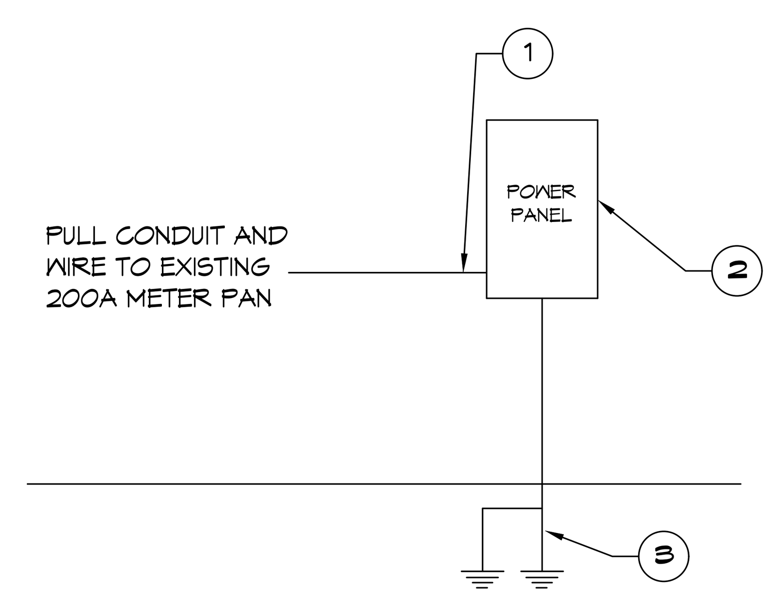
PANEL: MDP
LOCATION: HALLWAY
FEEDER SOURCE: METER ON 1ST FLOOR
VOLTAGE: 208/120V, 200A, 3Φ, 4W, W/MAIN BRK
ENCLOSURE: FLUSH MOUNTED W/ EQUIPMENT GND BAR
SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kva)	AΦ BΦ CΦ	LOAD (kva)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1					5.7		5.7					2
3	-	RTU #1	50	3	5.7		5.7	3	50	RTU #2	-	4
5					5.7		5.7					6
7	-	HOT WATER HEATER	30	2	2.5		1.3	1	20	OUTLETS	12	8
9					2.5		1.3	1	20	OUTLETS	12	10
11	12	OUTLETS	20	1	1.3		1.3	1	20	OUTLETS	12	12
13	12	OUTLETS	20	1	1.3		1.3	1	20	KITCHEN OUTLETS REFRIGERATOR	12	14
15	12	KITCHEN OUTLETS & DW	20	1	1.3		1.3	1	20	KITCHEN OUTLETS COUNTER	12	16
17	12	LIGHTS	20	1	1.0		1.0	1	20	LIGHTS	12	18
19	12	LIGHTS	20	1	1.0		-	1	20	SPARE	-	20
21	-	SPACE		1	-		-	1	20	SPARE	-	22
23	-	SPACE		1	-		-	1	20	SPARE	-	24
25	-	SPACE		1	-		-	1	20	SPARE	-	26
27	-	SPACE		1	-		-	1	20	SPARE	-	28
29	-	SPACE		1	-		-	1	20	SPARE	-	30

SOLID NEUTRAL / NEUTRAL WIRE (W) — TOTAL = 52.6 kva — GROUND BUS / GROUND WIRE (G)

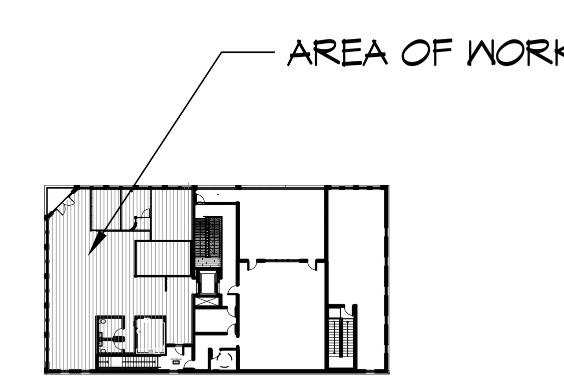
A = 18.8 kva | B = 17.8 kva | C = 16.0 kva

PANEL SCHEDULE
SCALE: N.T.S.



ONE LINE DIAGRAM
SCALE: N.T.S.

ONE LINE NOTES:
1. 4 #4 THHN, 1 #2 GND, 2-1/2" C
2. 120/208V 3Φ 200A PANELBOARD WITH MAIN BREAKER.
3. 2-3/4" x 10' CU CLAD GND ROD, #1/0 CU GND WIRE. PROTECT IN PVC PIPE. CONNECT TO METAL BLDG, COLD WATER SUPPLY & GAS LINE. CAD WELD ALL CONNECTIONS.



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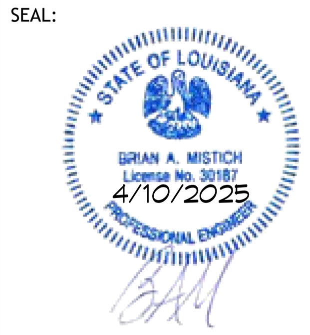
REVISIONS
#	DESCRIPTION	DATE

SEAL:



OFFICE BUILDOUT
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JOB No: 2512	DATE: 3-30-2025
DRAWN BY: CKD	CHECKED BY: CKD

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SHEET TITLE:
ELECTRICAL PLAN

DRAWING NUMBER:
E101

SHEET No: 17 of 7