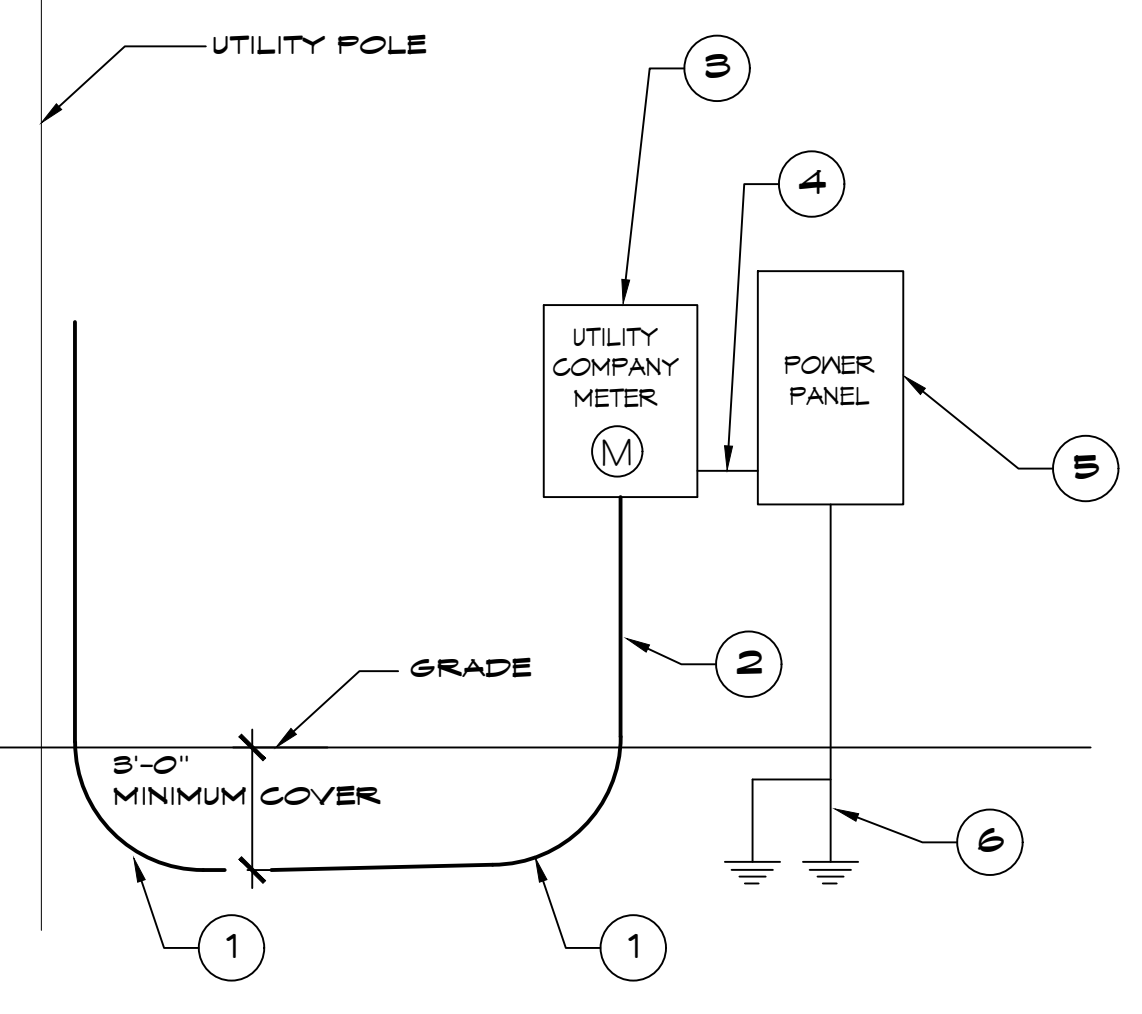


02-10-2025
 3:41:00 PM
 34180 R RANGE ROAD
 SLIDELL, LA 70460
 2507 DATE: 02-10-2025
 JOB No: 2507
 DRAWN BY: BAW
 C&D CHECKED BY: BAW
 2507 DATE: 02-10-2025
 JOB No: 2507
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 C&D CHECKED BY: BAW
 2507 DATE: 02-10-2025
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 DRAWN BY: BAW
 C&D CHECKED BY: BAW



- ONE LINE NOTES:**
- 36" LONG SWEEP ELBOW
 - PROVIDE TWO (2) 3" SCHEDULE 40 PVC CONDUIT BELOW GRADE AND SCH 80 PVC CONDUIT ABOVE GRADE WITH SUITABLE FISH WIRE.
 - 120/240V 1Ø 200amp METER PAN.
 - 3 #4 THHN, 1 #2 GND, 2-1/2" C
 - 120/240V 1Ø 200A PANELBOARD WITH MAIN BREAKER.
 - 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.

RISER DIAGRAM
SCALE: NTS

PANEL SCHEDULE											
PANEL LOCATION: EQUIPMENT ROOM		INTERRUPTING RATING: 10 KAIC		VOLTAGE ENCLASURE: 240/120V, 200A, 1Ø, 3W W/MAIN CIRCUIT		BREAKER					
FEEDER SOURCE: UTILITY		EQUIPMENT ROOM		EQUIPMENT ROOM		EQUIPMENT ROOM					
CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION	BREAKER	LOAD (KVA)	AD	BD	BREAKER	LOAD DESCRIPTION	THHN WIRE SIZE	CKT NO	
1	#12	RECEPTACLES CLASSROOM 3	20 1 1000				20 1 20	LIGHTS, CLASSROOM 3 AND CLOSET	#12	2	
3	#12	RECEPTACLES CLASSROOM 3 AND CLOSET	20 1 1000				20 1 20	LIGHTS, LOUNGE AND KITCHEN AND UTILITY CLOSET	#12	4	
5	#12	RECEPTACLES STUDY	20 1 1000				20 1 20	LIGHTS AND EXHAUST FAN (BATHROOMS)	#12	6	
7	#12	RECEPTACLE, MICROWAVE	20 1 1800				20 1 20	LIGHTS AND EXHAUST FAN (GEAR ROOM)	#12	8	
9	#12	RECEPTACLE, REFRIGERATOR	20 1 1800				20 1 20	LIGHTS EXTERIOR	#12	10	
11	#12	RECEPTACLES GEAR ROOM AND KITCHEN	20 1 1000					SPACE		12	
13	#12	RECEPTACLES OUTSIDE	20 1 1200					SPACE		14	
15	#12	RECEPTACLE FOR WATER COOLER	20 1 900					SPACE		16	
17	#12	RECEPTACLES, BATHROOMS	20 1 900					SPACE		18	
19	#12	RECEPT. TV, CLASSROOM 3	20 1 900					SPACE		20	
21		SPARE	20 1					SPACE		22	
23	#12	RECEPT. TV, STUDY	20 1 900					SPACE		24	
25		SPARE	20 1					SPACE		26	
27		SPARE	20 1					SPACE		28	
29		SPARE	20 1					SPACE		30	
31	#10	WATER HEATER	50 2 2500					SPACE		32	
33	#10	AHU-1	25 2 1450				4000 2 45	HEAT PUMP-1	#10	33	
35	#10	AHU-2	25 2 1450				4000 2 50	HEAT PUMP-2	#10	35	
37										37	
39										39	
41										41	
TOTAL CONNECTED LOAD (KVA) = 42,250				AD = 21,250				BD = 21,000			

GENERAL POWER NOTES

- 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.
- ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
- 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.
- PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILING, 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.
- 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.
- MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION.
- MINIMUM SIZE CONDUIT SHALL BE 3/4" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, 3/4" RIGID ALUMINUM FOR EXTERIOR USE ABOVE GRADE AND 1" SCHEDULE 40 PVC, BURIED A MINIMUM OF 18" FOR NON-VEHICULAR TRAFFIC AREAS, AND 3 FT 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).
- CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
- 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.
- 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 A KITCHEN AREA SHALL HAVE GROUND FAULT PROTECTION.
- BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:250-65, NFPA 70:250-23, 250-11 & 250-12.
- GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
- FUSES SHALL BE ITC CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
- 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.
- 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.
- 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.)
- VERIFY ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
- TYPES NM AND NMC CABLES SHALL NOT BE PERMITTED TO BE EXPOSED IN DROPPED OR SUSPENDED CEILING.

ELECTRICAL LOAD SUMMARY

POWER COMPANY:	Cleco
PROJECT NAME:	NEW TRAINING FACILITY
PROJECT ADDRESS:	34180 RANGE ROAD
CITY/TOWN:	SLIDELL, LOUISIANA 70460
INTENDED USER:	ST. TAMMANY FIRE TRAINING
REQUIRED SERVICE:	240/120 VOLTS 1 PHASE 3 WIRE
SERV ENTR SIZE:	200 AMPS
HVAC TONNAGE:	7.5 TONS
LARGEST MOTOR:	HP
NOTE: MOTORS ABOVE 20 HP MAY REQUIRE REDUCED VOLTAGE STARTING AND ARE NEVER RECOMMENDED FOR USE WITH 240/120V, 1 PH, 3 W SERVICE	
TOTAL BUILDING SQUARE FOOTAGE:	S.F.
INDIVIDUAL UNIT SQUARE FOOTAGE:	0 S.F.
INDIVIDUAL UNIT DESIGNATION:	(MULT OCCUPANCY)

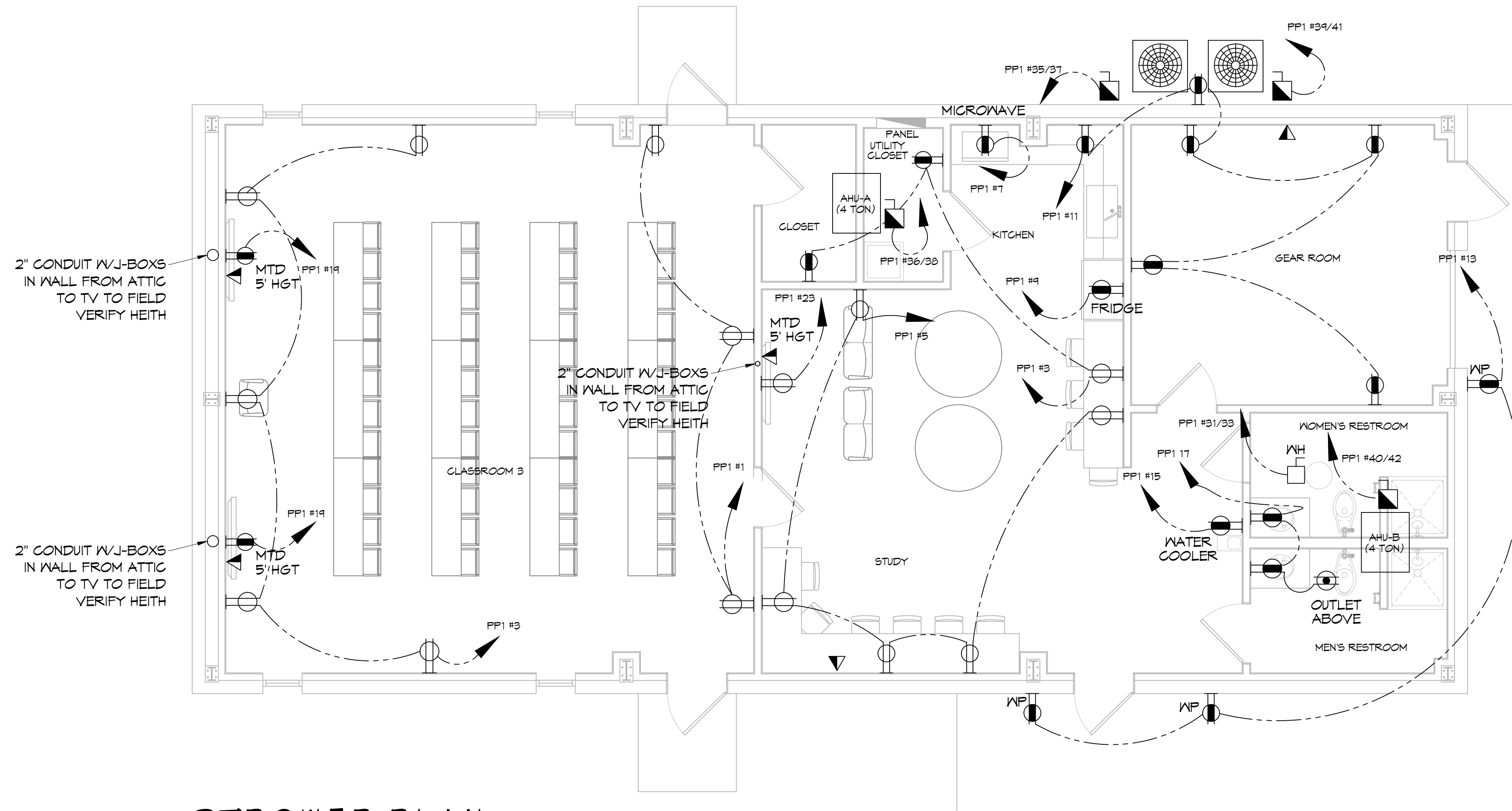
LOAD SOURCE	1Ø KVA	3Ø KVA	OR	1Ø KW	3Ø KW
BUILDING LIGHTING	2.1				
ELECTRIC WATER HEATING	5.0				
HEAT PUMPS	18.2				
SUPPLEMENTAL HEAT SYSTEMS	5.8				
AIR COND CONDENSING UNITS					
ELEC HEATING (PRIMARY) AHUS					
COOKING					
REFRIGERATION	1.5				
RECEPTACLES (STANDARD)	1.5				
RECEPTACLES (COMPUTER)					
TOTAL MOTORS (EXCLUDE HVAC)					
EXTERIOR LIGHTING	0.5				
MISCELLANEOUS - CEILING FANS					
OTHER					
TOTAL CONNECTED LOAD	41.2	0.0		0.0	0.0

POWER LEGEND

- TAMPER PROOF DUPLEX RECEPTACLE - WALL MOUNTED
- TAMPER PROOF GFCI DUPLEX RECEPTACLE - WALL MOUNTED
- WEATHER PROOF TAMPER PROOF GFCI DUPLEX RECEPTACLE - WALL MOUNTED
- DATA OUTLET - WALL MOUNTED
- DISCONNECT SWITCH W/ VIABLE BLADES
- FUSE DISCONNECT SWITCH W/ VIABLE BLADES
- JUNCTION BOX

THIS WORK SHALL MEET ALL ELECTRICAL CODES

- 2020 NATIONAL ELECTRICAL CODE
- NFPA 70
- 2021 IECC ENERGY CODE



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

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
Civil Engineer: Brian Michot, PE
5540 Cochrane Road, Suite 100
Slidell, LA 70468
www.dammonengineering.com
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REVISIONS	DATE	DESCRIPTION



**NEW TRAINING FACILITY
ST. TAMMANY FIRE PROTECTION
DISTRICT No. 1**

34180 R RANGE ROAD
SLIDELL, LA 70460
JOB No: 2507
DATE: 02-10-2025
DRAWN BY: BAW
C&D CHECKED BY: BAW

SHEET TITLE: POWER PLAN
DRAWING NUMBER: **E101**
SHEET No: 14 of 15