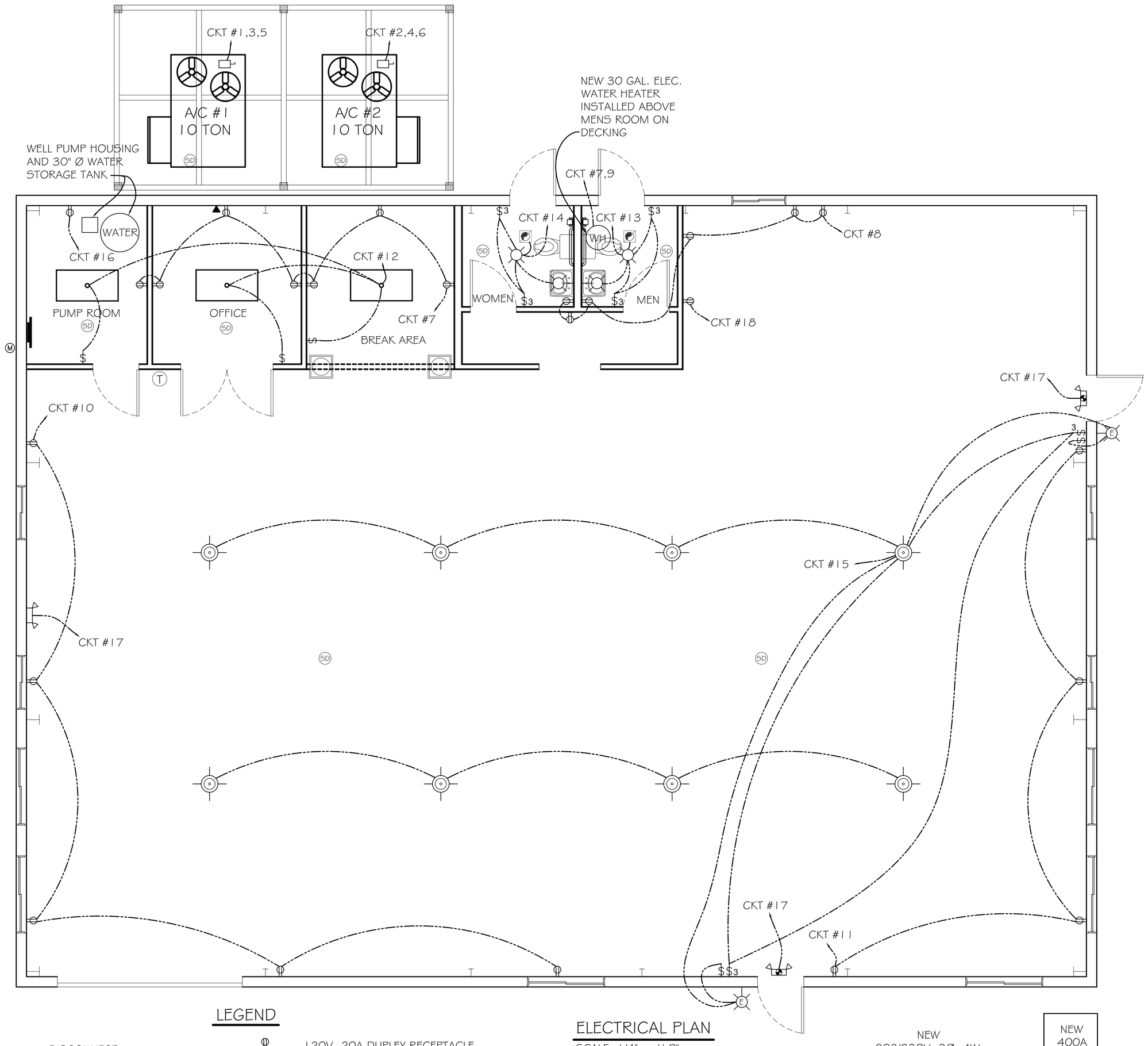
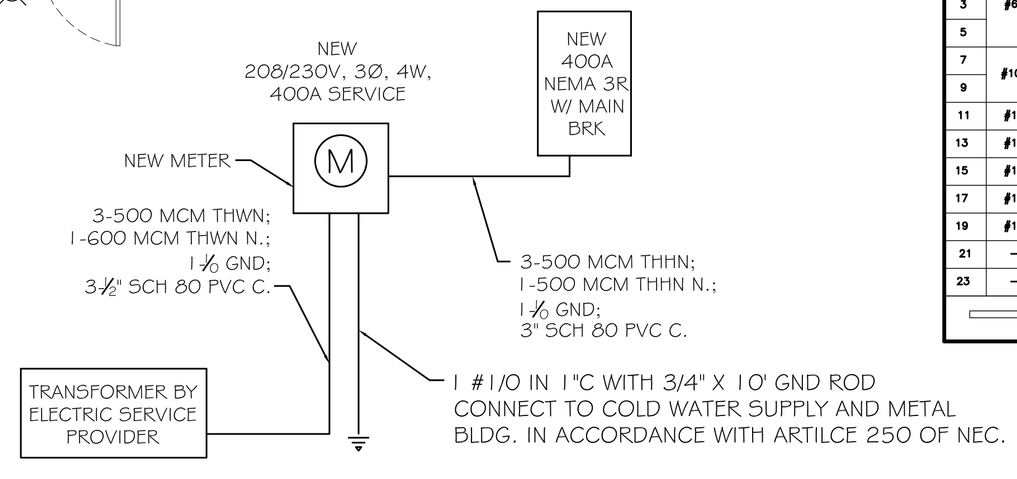


ELECTRICAL PLAN

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

LEGEND

- DISCONNECT / POWER PANEL
- THERMOSTAT
- 30 GAL ELEC. WATER HEATER
- VENT
- ELEC. SERVICE METER
- SWITCH
- 3-WAY SWITCH
- ELEC. SERVICE METER
- INTERIOR WALL MOUNTED LIGHT, STYLE BY OWNER
- 200W HIGH BAY LIGHTS SUSPEND FROM ROOF FRAMING 12' A.F.F.
- 120V, 20A DUPLEX RECEPTACLE
- 120V, GFI RECEPTACLE
- 120V, DEDICATED RECEPTACLE
- 120V, RECEPTACLE AT COUNTER HEIGHT
- 120V, WEATHERPROOF RECEPTACLE
- TELEPHONE / COMPUTER
- EXHAUST FAN
- 2'x4' CEILING MOUNTED FLUORESCENT LAMP, STEEL HOUSING, STYLE BY OWNER
- EMERGENCY LIGHT WITH 90 MIN. BATTERY BACKUP
- EMERGENCY / EXIT LIGHT WITH 90 MIN. BATTERY BACKUP
- CEILING MOUNTED LIGHT, STYLE BY OWNER
- EXTERIOR WATERPROOF WALL MOUNTED LIGHT, STYLE BY OWNER



ELECTRICAL ONE LINE

SCALE: N.T.S.

ELECTRICAL 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.
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 AND LOCATIONS OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
7. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
9. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, 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.
10. PERFORM TESTS REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
11. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
12. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT FOR INTERIOR USE, AND 3/4" RIGID ALUMINUM FOR EXTERIOR USE. USE TYPE NMC CABLE COPPER FOR LIGHTS AND RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS. STAMPED BOXES MAY BE USED ABOVE CEILINGS IN AIR CONDITIONED SPACES. MC MAY BE USED FOR LIGHTING WHIPS.
13. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
14. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5 FEET OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.
15. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71 AND 250-72.
16. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23B.
17. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200000 AMP INTERRUPTING CAP.
18. PROVIDE SERVICES OF A FIRE/ SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHAL.
19. EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER 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.
20. 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-E8-14).
21. TYPES EX1450, EX165N, EX185N, EZ185NZ, EX18XN, EX205N, EX205B, EX205BV, EX205NZ, EZ235N, EX235NZ, EX25DO, EX32DN, EX32DNZ, EZ32XN, EX44TN, EX44TNZ, EZ48TN, EX74TN, EX18CNEX18CNG, EZ20CH, EZ20CHG, EZ20CN, NON-METALLIC BOXES. FOR USE IN FIRE RESISTANCE WALL CONSTRUCTED IN WOOD OR NONBEARING STEEL STUDS AND GYPSUM WALLBOARD WITH 2 HOURS OR LESS CLASSIFICATION PERIODS. CLEARANCE BETWEEN BOXES AND CUTOUTS SHALL NOT EXCEED $\frac{1}{8}$ INCH. THE AREA OF OPENINGS FOR BOXES SHALL NOT AGGREGATE MORE THAN 100 SQUARE INCHES OF WALL OR PARTITION AREA WITH NO OPENING EXCEEDING 22.0 SQUARE INCHES. OUTLET BOXES ON OPPOSITE STUDS OF WALL OR PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES.
22. CONTRACTOR SHALL REWIRE EXISTING CORRIDORS AND CLASSROOMS INTO SEPARATE CIRCUITS AS SHOWN. EACH CORRIDOR SHALL BE ON SEPARATE CIRCUITS, EACH CLASSROOM SHALL HAVE ITS OWN SWITCH. REUSE CIRCUITS IN EXISTING PANEL TO FACILITATE REWIRING OF EXISTING CLASSROOMS. ADDITIONAL CIRCUITS AVAILABLE IN NEW PANEL PL2 FOR REMAINDER OF CLASSROOMS REQUIRING REWIRING.
23. CONTRACTOR SHALL BALANCE ALL PANELS.

PANEL: PL1
LOCATION: PUMP ROOM
FEEDER SOURCE: CLECO

VOLTAGE: 208/230, 3ø, 4W W/ 400A MAIN BRK.
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	A ø B ø C ø	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1	#6	AC#1 PKG. 10 TON UNIT W/ 16KW ELEC. HEAT	60	3	4600		4600	3	60	AC#2 PKG. 10 TON UNIT W/ 16KW ELEC. HEAT	#6	2
3					4600		4600					4
5					4600		4600					6
7	#10	30 GAL. WATER HEATER	20	2	2250		1200	1	20	OUTLETS	#12	8
9					2250		1200	1	20	OUTLETS	#12	10
11	#12	OUTLETS	20	1	1200		1000	1	20	FLOURESCENT LIGHTING	#12	12
13	#12	BATHROOM LIGHTING / VENT	20	1	1000		1000	1	20	BATHROOM LIGHTING / VENT	#12	14
15	#12	BAY LIGHTS	20	1	1600		1200	1	20	WELL PUMP	#12	16
17	#12	EMERGENCY LTG.	20	1	1200		1200	1	20	OUTLET	#12	18
19	#12	SPARE	20	1	1200		1200	1	20	SPARE	#12	20
21	-	SPACE	-	-	-		-	-	-	SPACE	-	22
23	-	SPACE	-	-	-		-	-	-	SPACE	-	24

SOLID NEUTRAL
NEUTRAL WIRE (W)

TOTAL CONNECTED LOAD (VA)
A ø=17050 | B ø= 15450 | B ø= 13800

GROUND BUS
GROUND WIRE (G)

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FIRE DEPT.
RENOVATION

ELMORE
SCHWANDT
DEBBIE DR.
SLIDELL , LA

ELECTRICAL
PLAN

REV:

SCALE: AS NOTED

JOB#: 2031

DATE: 6-3-09

SHEET 6

E-1

OF 7