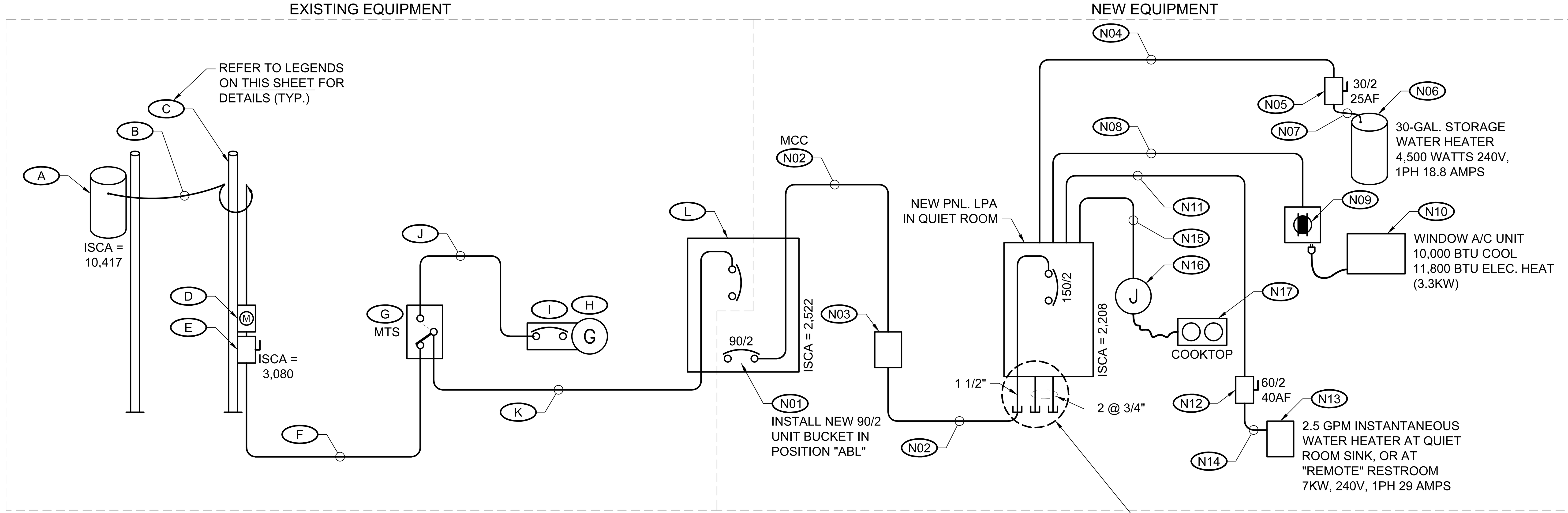
NEW EQUIPMENT LEGEND	
N01	NEW BRANCH CIRCUIT BREAKER INSTALLED IN EXISTING SPACE. REFER TO PANEL SCHEDULES FOR DETAILS.
N02	3#2+#4 GND., 1 1/2" C.
N03	12" W. x 16" L. x 6" D. NEMA 4X STAINLESS STEEL PULLBOX. DO NOT MAKE TAPS IN THIS BOX. THE QUIET ROOM FEEDER SHALL BE ONE CONTINUOUS PIECE.
N04	2#8+#10 GND., 3/4" C.
N05	30/2 FUSIBLE GENERAL DUTY DISC. SWITCH WITH VISIBLE BLADES (NOT A PULLOUT). PROVIDE 25 AMP FUSES RATED, 250 V, 200 KAIC, DUAL ELEMENT, TIME DELAY WITH BLOWN FUSE INDICATOR WINDOW
N06	30-GALLON STORAGE TYPE WATER HEATER
N07	2#10+#10 GND., 3/4" C., GREENFIELD
N08	2#8+#10 GND., 3/4" C.
N09	30-AMP, 250 VOLT FLUSH RECEPTACLE FOR WINDOW HVAC UNIT. NEMA TYPE 30-6R.
N10	WINDOW HVAC UNIT WITH ELECTRIC HEAT, 240 VOLTS
N11	3#8+#10 GND., 3/4" C.
N12	60/2 FUSIBLE GENERAL DUTY DISC. SWITCH WITH VISIBLE BLADES (PULLOUT TYPE OKAY). PROVIDE 40 AMP FUSES RATED, 250 V, 200 KAIC, DUAL ELEMENT, TIME DELAY WITH BLOWN FUSE INDICATOR WINDOW
N13	INSTANTANEOUS WATER HEATER UNDER SINK COUNTER
N14	3#10+#10 GND., 3/4" C.
N15	3#10+#10 GND., 3/4" C.
N16	4" SQUARE JB UNDER COUNTER FOR COOKTOP CONNECTIONS
N17	(2) BURNER COOKTOP, 240V, 1PH, 3500 W TOTAL

EXISTING EQUIPMENT LEGEND	
A	POWER CO. TRANSFORMER AND WOOD POLE, 120/240 VOLT, 3PH, 4W SERVICE 50 KVA = 208 FLA. IF 2% IMP., ISCA = 10,417A
B	POWER CO. OVERHEAD SERVICE DROP
C	WOOD SERVICE DROP POLE
D	POWER CO. METER AND METER PAN, 120/240 VOLT, 3PH, 4W SERVICE 200 AMPS
E	MAIN FUSIBLE DISCONNECT SWITCH, 200 AMPS
F	UNDERGROUND FEEDER TO BLDG. ELECTRICAL EQUIPMENT
G	MANUAL TRANSFER SWITCH (MTS) INSIDE PUMP STATION BLDG. 3 POLE, 250 VOLT, 200 AMPS
H	DIESEL GENERATOR SET INSIDE PUMP STATION BLDG., 120/240 VOLTS, 3PH, 4W
I	MAIN CIRCUIT BREAKER ON GENERATOR SET, 175 AMPS
J	GENERATOR SET FEEDER TO MTS.
K	MTS LOAD FEEDER TO DISTRIBUTION PANEL
L	MOTOR CONTROL CENTER MCC 200 AMPS MCB 120/240 VOLTS, 3PH, 4W

NOTE:
1. ALL WIRE SIZES NOT SPECIFICALLY CALLED OUT SHALL BE 2#12+#12 GND., 3/4" C.
2. THERE SHALL BE NO MULTIWIRE BRANCH CIRCUITS. PROVIDE SEPARATE NEUTRAL FOR ALL 120 VOLT CIRCUITS. IDENTIFY NEUTRAL WITH COLOR CODE TO MATCH PHASE CONDUCTORS.
3. ALL DEVICES SHALL BE IVORY.
4. ALL DEVICE PLATES SHALL BE STAINLESS STEEL.



THE PANEL FEEDER CONDUIT, PLUS TWO SPARE 3/4" CONDUITS, SHALL BE STUBBED DOWN THRU THE FOAM INSULATION BELOW THE QUIET ROOM CONTAINER FLOORING. THE FEEDER CONDUIT SHALL THEN BE EXTENDED TO PULLBOX "N03", ONCE THE CONTAINER IS SET INTO PLACE. CAP THE TWO SPARE 3/4" CONDUITS FOR FUTURE USE.

PARTIAL ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.

NEW PANEL SCHEDULE

PANEL NAME LPA
LOCATION INSIDE BLDG.
FOUND ON DWG. NO.
FED FROM EXISTING DISTRIBUTION PANEL
AVAILABLE FAULT CURRENT <10,000 SYM. AMPS
PANEL AIC RATING 10,000
● FULLY RATED
○ SERIES RATED FOR ____ KAIC FROM ____
FEEDER 3 # 2 + #4 GND., 1-1/2" C.
● FEEDER PROTECTED BY OVERCURRENT DEVICE

VOLTAGE ● 240/120V, 1Ø 3W ○ 208/120V, 1Ø 3W
MAINS, 150 AMP
● FACTORY BOLT-ON MAIN CIRCUIT BREAKER, RATED 22KAIC
○ SHUNT TRIP MAIN CB
○ MAIN LUGS ONLY
○ UL LISTED FEED-THRU LUGS
○ SURGE ARRESTOR WIRED TO LOAD SIDE OF MAIN, 2 POLE, 175V, JOSLYN Z2-175-OA, OR EQUAL
NEUTRAL ● 100% ○ 200%
MOUNTING ○ SURFACE ● FLUSH

ENCLOSURE ● NEMA1 ○ NEMA3R ○ NEMA12 ○ NEMA4X STAINLESS STEEL
● LOCKABLE COVER
FEED ● TOP ○ BOTTOM
BRANCHES ○ BOLT-ON, PANELBOARD CONSTR. ● STAB-IN, LOAD CENTER CONSTR.
● PANEL HAS FRONT ACCESS ONLY
● ALL COPPER BUSSING
● FURNISH COPPER GROUND BAR KIT
○ ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
○ SERVICE ENTRANCE LABEL
● PANEL NAMEPLATE, 2"x4" ENGRAVED PLASTIC LAMINATE USE 1/4" LETTERING FOR PANEL NAME, ON 1 LINE USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO./YR. INSTALLED, ON 4 LINES
● BLACK FIELD, WHITE LETTERS
○ RED FIELD, WHITE LETTERS

CKT. #	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	LTS	REC	MIS	MIS	REC	LTS	VOLT-AMPS A	VOLT-AMPS B	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. #
1	2	20	2 ELEMENT COOKTOP, 3.5KW	1800								500		LIGHTS	20	1	2
3	—	—	— —		1800								500	REFRIGERATOR	20	1	4
5	2	30	ROOM AIR CONDITIONER W/ 3.3KW HEATER	2000								1500		COFFEE POT	20	1	6
7	—	—	— —		2000								1500	MICROWAVE	20	1	8
9	2	30	30 GALLON STORAGE TYPE WATER HEATER, 4.5KW	2300								1500		BATH HEATER FAN	20	1	10
11	—	—	— —		2300								1000	RECEPTACLES	20	1	12
13	2	45	2.5 GPM INSTANTANEOUS TYPE WATER HEATER	3500								1000		RECEPTACLES	20	1	14
15	—	—	— —		3500									RECEPTACLES	20	1	16
17	2	30		1500										RECEPTACLES	20	1	18
19	—	—			1500									RESTROOM ROOFTOP RV A/C UNIT	20	1	20
21	2	20		2000											20	1	22
23	—	—			2000								500	BATH LIGHT, GFI OUTSIDE BATH	20	1	24
25	2	20		1000								500		CAMERA CABINET	20	1	26
27	—	—			1000										20	1	28
29	1	20	SPARE	1500										SPARE	15	1	30

REMARKS: SUBTOTAL ODD SIDE
SUBTOTAL EVEN SIDE
SUBTOTAL ODD SIDE
FEED-THRU LUG LOAD — — FROM PANEL ____
TOTAL CONN. LOAD
= ____ KVA
= ____ AMPS

1. "30 CIRCUITS" MEANS 30 FULL-SIZED BREAKER POSITIONS. THERE SHALL BE NO PIGGYBACK, MINIATURE, NOR ANY HALF-HEIGHT BREAKERS.

PNLSCH02 ●
01-30-12

EXISTING PANEL SCHEDULE

PANEL NAME P
LOCATION PUMP STATION BLDG.
FOUND ON DWG. NO.
FED FROM MCC UNIT CB
AVAILABLE FAULT CURRENT ____ SYM. AMPS
PANEL AIC RATING 10,000
● FULLY RATED
○ SERIES RATED FOR ____ KAIC FROM ____
EXISTING PANEL IS GE A-SERIES 2
FEEDER 4 # 4/0
○ FEEDER PROTECTED BY OVERCURRENT DEVICE

VOLTAGE ○ 480/277V, 3Ø 4W, WYE ○ 208/120V, 3Ø 4W, WYE ● 240/120V, 3Ø 4W, DELTA W/BØ "STINGER"
MAINS, 225 AMP
○ FACTORY MAIN CIRCUIT BREAKER
○ SHUNT TRIP MAIN CB
● MAIN LUGS ONLY
○ UL LISTED FEED-THRU LUGS
○ MAIN FUSIBLE SWITCH, FURNISH FUSES: ≤ 600A, CLASS RK5, >600A, CLASS L, ALL RATED 200,000 AIC
○ LIGHTNING ARRESTOR WIRED TO LOAD SIDE OF MAIN, 3 POLE, 650V, JOSLYN Z3-650-OA, OR EQUAL
NEUTRAL ● 100% ○ 200%
MOUNTING ○ SURFACE ○ FLUSH

ENCLOSURE ● NEMA1 ○ NEMA3R ○ NEMA12 ○ NEMA4X STAINLESS STEEL
○ LOCKABLE COVER
FEED ● TOP ○ BOTTOM
BRANCHES ○ BOLT-ON, PANELBOARD CONSTR. ● STAB-IN, LOAD CENTER CONSTR. ○ FUSIBLE SWITCHES W/ CLASS R FUSE REJ. CLIPS, FURNISH ALL FUSES, CLASS RK5, 200,000 AIC
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING
FURNISH COPPER GROUND BAR KIT
○ ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
○ SERVICE ENTRANCE LABEL
○ PANEL NAMEPLATE, 2"x4" ENGRAVED PLASTIC LAMINATE USE 1/4" LETTERING FOR PANEL NAME, ON 1 LINE USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO./YR. INSTALLED, ON 4 LINES
○ BLACK FIELD, WHITE LETTERS
○ RED FIELD, WHITE LETTERS

CKT. #	# OF POLES	TRIP AMPS	PHASE CONN.	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	PHASE CONN.	TRIP AMPS	# OF POLES	CKT. #
1	2	80	A	EXISTING LOADS							EXISTING LOADS	A	70	2	2
3	—	—	B									B	—	—	4
5	2	20	C									C	20	2	6
7	—	—	A									A			8
9	2	20	B									B	60	2	10
11	—	—	C									C	—	—	12
13	1	20	A									A	30	2	14
15	1	20	B									B	—	—	16
17	2	20	C									C	20	2	18
19	—	—	A									A	—	—	20
21	1	20	B									B	20	1	22
23	1	20	C									C	20	2	24
25	1	20	A									A	—	—	26
27	1	20	B									B	20	1	28
29	1	20	C									C	20	1	30
31	1	20	A									A	20	1	32
33	XX	XX	B	BLANKED							BLANKED	B	XX	XX	34
35	1	20	C	EXIST. LOAD							EXIST. LOAD	C	20	1	36
37	1	20	A	EXIST. LOAD							EXIST. LOAD	A	20	1	38
39	XX	XX	B	BLANKED							BLANKED	B	XX	XX	40
41	1	20	C	EXIST. LOAD							EXIST. LOAD	C	20	1	42

TRIP AMPS = FUSE SIZE IF FUSIBLE SWITCHES SUBTOTAL ODD SIDE
SUBTOTAL EVEN SIDE
SUBTOTAL ODD SIDE
FEED-THRU LUG LOAD FROM PANEL ____
TOTAL CONN. LOAD
= ____ KVA
= ____ AMPS

REMARKS:
1. "B" IN ABOVE "LOAD DESCRIPTIONS" IS CONNECTED TO THE "STINGER LEG", AND CANNOT BE USED FOR SINGLE PHASE, 120 VOLT LOADS.

These plans and specifications have been prepared by me or under my close personal supervision, and to the best of my knowledge and belief, they meet all applicable codes and ordinances. I will (will not) supervise the work.
Bruce D. Barton
BRUCE D. BARTON, # 18286
Date

STATE OF LOUISIANA
BRUCE D. BARTON
REG. No. 18286
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
Bruce D. Barton 10/4/2012

ALL SOUTH CONSULTING ENGINEERS, L.L.C.
652 PAPWORTH AVENUE
METAIRIE, LA 70005
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CADD FILE NAME:	
REVISIONS	DATE: / REMARKS: / APP'D
DESIGNED BY:	RAC
DRAWN BY:	EAO
CHECKED BY:	RAC
DATE:	10/04/2012
SCALE:	AS SHOWN
JOB NO.	025-006-01

PLAQUEMINES PARISH QUIET ROOMS
PACKAGE NO. 2
DIAMOND PUMP STATION, HAYES PUMP STATION, GRAND DELIARD PUMP STATION, AND DUVIC PUMP STATION
HAYES PUMP STATION

ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

SHEET NO. HY-E3