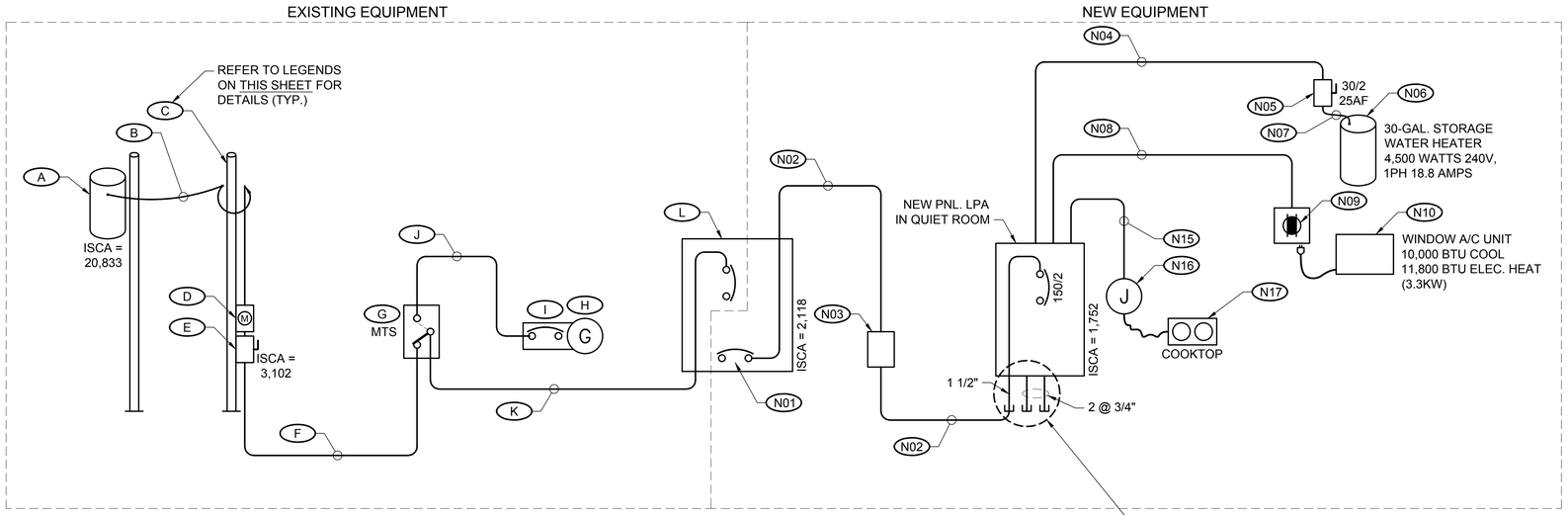
NEW EQUIPMENT LEGEND	
N01	NEW BRANCH CIRCUIT BREAKER INSTALLED IN EXISTING SPACE. REFER TO PANEL SCHEDULES FOR DETAILS.
N02	3#2+#4 GND., 1 1/2" C.
N03	12" W. x 16" L. x 6" D. NEMA 4X STAINLESS STEEL PULLBOX. DO NOT MAKE TAPS IN THIS BOX. THE QUIET ROOM FEEDER SHALL BE ONE CONTINUOUS PIECE.
N04	2#8+#10 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	NOT USED
N12	NOT USED
N13	NOT USED
N14	NOT USED
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



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.

EXISTING EQUIPMENT LEGEND	
A	POWER CO. TRANSFORMER AND WOOD POLE, 120/240 VOLT, 3PH, 4W SERVICE 100 KVA = 416 FLA. IF 2% IMP., ISCA = 20,833A
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	DISTRIBUTION PANEL, 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.

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 Z2-175-0A, 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	RECP	MTR	MTR	RECP	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	SPARE	3500								1000		RECEPTACLES	20	1	14
15	—	—	— —		3500								1000	RECEPTACLES	20	1	16
17	2	30	SPARE	1500								1000		RECEPTACLES	20	1	18
19	—	—	— —		1500								1500	RESTROOM HEATER/FAN	20	1	20
21	2	20		2000											20	1	22
23	—	—			2000										20	1	24
25	2	20		1000								500		CAMERA CABINET	20	1	26
27	—	—			1000										20	1	28
29	1	20		1500										SPARE	15	1	30
			SUBTOTAL ODD SIDE											SUBTOTAL EVEN SIDE			
														SUBTOTAL ODD SIDE			
														FEED-THRU LUG LOAD	—	—	
														TOTAL CONN. LOAD			

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

FROM PANEL ____
= ____ KVA
= ____ AMPS

PNLSCH02 ●
01-30-12

EXISTING PANEL SCHEDULE

PANEL NAME: P
LOCATION: PUMP STATION BLDG.
FOUND ON DWG. NO.:
FED FROM: MANUAL TRANSFER SWITCH
AVAILABLE FAULT CURRENT: ____ SYM. AMPS
PANEL AIC RATING: 10,000
● FULLY RATED
○ SERIES RATED FOR ____ KAIC FROM ____
EXISTING PANEL IS SQ. D. CAT. #QBM-43844
FEEDER: 3 # 1/0 + #4 GND., 2" C.
○ 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, 150 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 Z3-650-0A, 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	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LTS	RECP	MTR	MTR	LTS	RECP	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. #	
	1	1	20	EXISTING LOADS													EXISTING LOADS	20	1	2	
	3	1	20															20	1	4	
	5	1	20															20	1	6	
	7	1	20															20	1	8	
	9	1	20															20	2	10	
	11	1	20															—	—	12	
	13	2	20															20	2	14	
	15	—	—															—	—	16	
	17			SPACE ONLY													SPACE ONLY			18	
	19																			20	
	21	2	50	EXISTING LOADS																22	
	23	—	—																	24	
	25	3	20	EXISTING LOADS													EXISTING LOADS	60	3	26	
	27	—	—															—	—	28	
	29	—	—															—	—	30	
	31	3	30														QUIET ROOM PANEL	90	3	32	*
	33	—	—															—	—	34	NEW
	35	—	—															—	—	36	*
	37			SPACE ONLY													EXISTING LOADS	70	3	38	REMARKS #1 & 2
	39			SPACE ONLY														—	—	40	
NEW	41	1	20	RESTROOM ROOFTOP RV A/C UNIT														—	—	42	

TRIP AMPS = FUSE SIZE IF FUSIBLE SWITCHES

SUBTOTAL ODD SIDE			SUBTOTAL EVEN SIDE
			SUBTOTAL ODD SIDE
			FEED-THRU LUG LOAD
			TOTAL CONN. LOAD

REMARKS:
1. * INSTALL A NEW 90/3 CIRCUIT BREAKER RATED FOR "120/240" VOLT LOADS. A CB MARKED ONLY FOR "240" VOLT APPLICATIONS IS NOT ACCEPTABLE. USE ONLY PHASES "A" AND "C" TO POWER THE NEW QUIET ROOM 1-PHASE PANEL. DO NOT MAKE ANY CONNECTION TO THE "B" PHASE "STINGER" LEG.
2. VERIFY THAT THE "STINGER" LEG IS PRESENTLY CONNECTED TO THE "B" PHASE OF THIS PANEL. NOTIFY THE ENGINEER IF IT IS NOT.

FROM PANEL ____
= ____ KVA
= ____ AMPS

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, and are adequate for this work.
BRUCE D. BARTON, # 18296
Date: 10/4/2012

STATE OF LOUISIANA — BRUCE D. BARTON, REG. No. 18296, REGISTERED PROFESSIONAL ENGINEER

CADD FILE NAME:

DATE:	REMARKS:	REVISIONS	APP'D

ALL SOUTH CONSULTING ENGINEERS, L.L.C.
652 PAPWORTH AVENUE
METAIRIE, LA 70005
(504) 322-2783

DESIGNED BY:	DRAWN BY:	CHECKED BY:
RAC	EAO	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
GRAND DELIARD PUMP STATION

ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

SHEET NO. GD-E3