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ARCHITECTURE
ENGINEERING
STUDIES
PLANNING
INVESTIGATION
EXPERT WITNESS

NEW
CLASSROOMS

RAINBOW
CENTER
KINGSPPOINT
21 KINGSPPOINT BLVD
SUDELL, LA

PANEL SCHEDULES,
NOTES &
ONE LINE DIAGRAM

REV:
SCALE: AS NOTED
JOB#: 1998
DATE: 08-28-08
SHEET

OF
E-2

ELECTRICAL 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.
- 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 AND LOCATIONS 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.
- WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
- 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 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.
- PERFORM TESTS 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 1/2" 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.
- CONTRACTOR SHALL BALANCE ALL PANELS.
- NEW 120V 208, 3Ø, 4W, 2500A METER LOCATED OUTSIDE EXISTING BLDG.
- NEW 3Ø, 4W, 2500A FUSED DISCONNECT LOCATED OUTSIDE EXISTING BLDG. UNDER METER.
- NEW 120V 208, 3Ø, 4W, 2500A METER LOCATED OUTSIDE EXISTING BLDG.
- 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 #12 FOR REMAINDER OF CLASSROOMS REQUIRING REWIRING.
- TYPE5 EX1450, EX165N, EX185N, E2185N, EX18X, EX205N, EX205B, EX205N2, E2235N, EX235N2, EX2550, EX325N, EX325N2, E2325N, EX41N, EX41N2, EX481N, EX741N, EX18CN, EX18CN2, E220CH, E220CH2, E220CN, NON-METALLIC BOXES. FOR USE IN FIRE RESISTANT WALLS 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 1/2" 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.
- 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 #12 FOR REMAINDER OF CLASSROOMS REQUIRING REWIRING.

PANEL: MDP
LOCATION: UTILITY ROOM
FEDDER SOURCE: CLECO

VOLTAGE: 240/1 20V, 200A 3Ø, 4W
ENCLOSURE: SURFACE MOUNTED W/ EQUIPMENT GND BAR
SQUARE D TYPE OO LOAD CENTER OR EQUAL

CCT. NO.	THINN. SIZE	LOAD DESCRIPTION	BREAKER AMP	POLE	LOAD (VA)	40 80 120		LOAD (VA)	POLE	BREAKER AMP	LOAD DESCRIPTION	THINN. SIZE	CCT. NO.
						40	80						
1	2 #12	HOT WATER HEATER	20	2	1960			400	1	20	CLASSROOM 1 RECEPTACLES	2 #12	2
3	2 #12	CLASSROOM 1 GR RECEPTAC	20	1	200			400	1	20	CLASSROOM 1 RECEPTACLES	2 #12	4
5	2 #12	CLASSROOM 2 GR RECEPTAC	20	1	200			400	1	20	CLASSROOM 2 RECEPTACLES	2 #12	6
7	2 #12	CLASSROOM 3 GR RECEPTAC	20	1	200			400	1	20	CLASSROOM 3 RECEPTACLES	2 #12	8
9	2 #12	CLASSROOM 3 RECEPTACLES	20	1	200			200	1	20	CLASSROOM 3 GR RECEPTAC	2 #12	10
11	2 #12	CHILD RESTROOM GR RECEPTAC	20	1	200			200	1	20	CHILD RESTROOM GR RECEPTAC	2 #12	12
13	2 #12	CLASSROOM 1 LIGHTS	20	1	800			400	1	20	NIGHT CORRIDOR LIGHTS	2 #12	14
15	2 #12	CLASSROOM 2 LIGHTS	20	1	400			400	1	20	CLASSROOM 3 LIGHTS	2 #12	16
17	2 #12	CHILD RESTROOM VENT/LIGHT	20	1	200			200	1	20	CHILD RESTROOM VENT/LIGHT	2 #12	18
19	2 #12	CLASSROOM 1 CEILING FAN	20	1	200			200	1	20	CLASSROOM 2 CEILING FAN	2 #12	20
21	2 #12	CLASSROOM 2 CEILING FAN	20	1	200			200	1	20	SMOKE DETECTOR	2 #12	22
23	2 #12	EMERGENCY EXIT LIGHTS	20	1	500			700	1	20	EXTROK WALL SCONCE LIGHTS	2 #12	24
25	2 #12	PANO CEILING FANS	20	1	200			300	1	20	EXTROK W/ GR RECEPTACLES	2 #12	26
27	2 #12	SOUTH CORRIDOR LIGHTS	20	1	600			-	1	20	SPRINK	2 #12	28
29	2 #12	SPRINK	20	1	-			-	1	20	SPRINK	2 #12	30
					TOTAL CONNECTED LOAD (VA)						GROUND BUS GROUND WIRE (Ø)		
					48			88			62		

PANEL: #12
LOCATION: UTILITY ROOM
FEDDER SOURCE: CLECO

VOLTAGE: 240/1 20V, 200A 3Ø, 4W
ENCLOSURE: SURFACE MOUNTED W/ EQUIPMENT GND BAR
SQUARE D TYPE OO LOAD CENTER OR EQUAL

CCT. NO.	THINN. SIZE	LOAD DESCRIPTION	BREAKER AMP	POLE	LOAD (VA)	40 80 120		LOAD (VA)	POLE	BREAKER AMP	LOAD DESCRIPTION	THINN. SIZE	CCT. NO.
						40	80						
1	2 #12	HOT WATER HEATER	20	2	1960			400	1	20	CLASSROOM 1 RECEPTACLES	2 #12	2
3	2 #12	CLASSROOM 1 GR RECEPTAC	20	1	200			400	1	20	CLASSROOM 1 RECEPTACLES	2 #12	4
5	2 #12	CLASSROOM 2 GR RECEPTAC	20	1	200			400	1	20	CLASSROOM 2 RECEPTACLES	2 #12	6
7	2 #12	CLASSROOM 3 GR RECEPTAC	20	1	200			400	1	20	CLASSROOM 3 RECEPTACLES	2 #12	8
9	2 #12	CLASSROOM 3 RECEPTACLES	20	1	200			200	1	20	CLASSROOM 3 GR RECEPTAC	2 #12	10
11	2 #12	CHILD RESTROOM GR RECEPTAC	20	1	200			200	1	20	CHILD RESTROOM GR RECEPTAC	2 #12	12
13	2 #12	CLASSROOM 1 LIGHTS	20	1	800			400	1	20	NIGHT CORRIDOR LIGHTS	2 #12	14
15	2 #12	CLASSROOM 2 LIGHTS	20	1	400			400	1	20	CLASSROOM 3 LIGHTS	2 #12	16
17	2 #12	CHILD RESTROOM VENT/LIGHT	20	1	200			200	1	20	CHILD RESTROOM VENT/LIGHT	2 #12	18
19	2 #12	CLASSROOM 1 CEILING FAN	20	1	200			200	1	20	CLASSROOM 2 CEILING FAN	2 #12	20
21	2 #12	CLASSROOM 2 CEILING FAN	20	1	200			200	1	20	SMOKE DETECTOR	2 #12	22
23	2 #12	EMERGENCY EXIT LIGHTS	20	1	500			700	1	20	EXTROK WALL SCONCE LIGHTS	2 #12	24
25	2 #12	PANO CEILING FANS	20	1	200			300	1	20	EXTROK W/ GR RECEPTACLES	2 #12	26
27	2 #12	SOUTH CORRIDOR LIGHTS	20	1	600			-	1	20	SPRINK	2 #12	28
29	2 #12	SPRINK	20	1	-			-	1	20	SPRINK	2 #12	30
					TOTAL CONNECTED LOAD (VA)						GROUND BUS GROUND WIRE (Ø)		
					48			88			62		

LEGEND

- EXISTING 2 X 4 FLUORESCENT FIXTURE
- EXISTING EXIT LIGHT
- EXISTING EMERGENCY LIGHT
- EXISTING TELEPHONE/ DATA OUTLET
- EXISTING SMOKE DETECTOR
- EXISTING POWER, LIGHTING PANEL
- EXISTING REVERSIBLE CEILING FAN (REVERSIBLE @ WALL SWITCH)
- EXISTING FIRE ALARM STROBE LIGHT
- 120V DUPLEX OUTLET
- 120V DUPLEX GFI OUTLET
- 120V WEATHERPROOF GFI OUTLET
- 120V SINGLE OUTLET
- DISCONNECT
- POWER, LIGHTING PANEL
- VENT LIGHT
- SWITCH
- DIMMER SWITCH
- 2 X 4 FLUORESCENT FIXTURE (N INDICATES NIGHT LIGHT- ALWAYS ON)
- 3 WAY SWITCH
- CEILING MOUNTED FIXTURE
- EXTERIOR WALL SCONCE FIXTURE W. 90 MIN. BACKUP
- REVERSIBLE CEILING FAN (REVERSIBLE @ WALL SWITCH)
- EXIT EMERGENCY LIGHT W/ 90 MIN. BACKUP
- EMERGENCY LIGHT W/ 90 MIN. BACKUP
- CABLE TV OUTLET
- TELEPHONE OUTLET
- FIRE ALARM STROBE LIGHT
- SMOKE DETECTOR

ELECTRICAL ONE LINE DIAGRAM

