

NEW PANEL LN
SERVICE: 208Y/210V, 3φ
MAIN: 225A-3P MAIN BREAKER
PANEL A.I.C.: 25,000A
SERVES VA CIR. BKR. CIR. # A B C CIR. # CIR. BKR. VA SERVES
SPARE -- 20/1 1 22 20/1 -- SPARE
SPARE -- 20/1 2 23 20/1 -- SPARE
SPARE -- 20/1 3 24 20/1 -- SPARE
SPARE -- 20/1 4 25 20/1 -- SPARE
SPARE -- 20/1 5 26 20/1 -- SPARE
SPARE -- 20/1 6 27 20/1 -- SPARE
SPARE -- 20/1 7 28 20/1 -- SPARE
SPARE -- 20/1 8 29 20/1 -- SPARE
SPARE -- 20/1 9 30 20/1 -- SPARE
SPARE -- 20/1 10 31 20/1 -- SPARE
SPARE -- 20/1 11 32 20/1 -- SPARE
SPARE -- 20/1 12 33 20/1 -- SPARE
SPARE -- 20/1 13 34 20/1 -- SPARE
SPARE -- 20/1 14 35 20/1 -- SPARE
SPARE -- 20/1 15 36 20/1 -- SPARE
SPARE -- 20/1 16 37 20/1 -- SPARE
SPARE -- 20/1 17 38 20/1 -- SPARE
SPARE -- 20/1 18 39 20/1 -- SPARE
SPARE -- 20/1 19 40 20/1 -- SPARE
SPARE -- 20/1 20 41 20/1 -- SPARE
SPARE -- 20/1 21 42 20/1 -- SPARE
TOTAL CONNECTED LOAD: VA

NEW PANEL HN
SERVICE: 480Y/277V, 3φ
MAIN: 400A M.L.O.
PANEL A.I.C.: 25,000A
OPTIONS: EQUIP. GROUND BUS
SERVES VA CIR. BKR. CIR. # A B C CIR. # CIR. BKR. VA SERVES
SPARE -- 20/1 1 22 20/1 -- SPARE
SPARE -- 20/1 2 23 20/1 -- SPARE
SPARE -- 20/1 3 24 20/1 -- SPARE
SPARE -- 20/1 4 25 20/1 -- SPARE
SPARE -- 20/1 5 26 20/1 -- SPARE
SPARE -- 20/1 6 27 20/1 -- SPARE
SPARE -- 20/1 7 28 20/1 -- SPARE
SPARE -- 20/1 8 29 20/1 -- SPARE
SPARE -- 20/1 9 30 20/1 -- SPARE
SPARE -- 20/1 10 31 20/1 -- SPARE
SPARE -- 20/1 11 32 20/1 -- SPARE
SPARE -- 20/1 12 33 20/1 -- SPARE
SPARE -- 20/1 13 34 20/1 -- SPARE
SPARE -- 20/1 14 35 20/1 -- SPARE
SPARE -- 20/1 15 36 20/1 -- SPARE
SPARE -- 20/1 16 37 20/1 -- SPARE
SPARE -- 20/1 17 38 20/1 -- SPARE
SPARE -- 20/1 18 39 20/1 -- SPARE
SPARE -- 20/1 19 40 20/1 -- SPARE
SPARE -- 20/1 20 41 20/1 -- SPARE
SPARE -- 20/1 21 42 20/1 -- SPARE
TOTAL CONNECTED LOAD: VA

NEW PANEL LM
SERVICE: 208Y/210V, 3φ
MAIN: 225A-3P MAIN BREAKER
PANEL A.I.C.: 10,000A
SERVES VA CIR. BKR. CIR. # A B C CIR. # CIR. BKR. VA SERVES
SPARE -- 20/1 1 22 20/1 -- SPARE
SPARE -- 20/1 2 23 20/1 -- SPARE
SPARE -- 20/1 3 24 20/1 -- SPARE
SPARE -- 20/1 4 25 20/1 -- SPARE
SPARE -- 20/1 5 26 20/1 -- SPARE
SPARE -- 20/1 6 27 20/1 -- SPARE
SPARE -- 20/1 7 28 20/1 -- SPARE
SPARE -- 20/1 8 29 20/1 -- SPARE
SPARE -- 20/1 9 30 20/1 -- SPARE
SPARE -- 20/1 10 31 20/1 -- SPARE
SPARE -- 20/1 11 32 20/1 -- SPARE
SPARE -- 20/1 12 33 20/1 -- SPARE
SPARE -- 20/1 13 34 20/1 -- SPARE
SPARE -- 20/1 14 35 20/1 -- SPARE
SPARE -- 20/1 15 36 20/1 -- SPARE
SPARE -- 20/1 16 37 20/1 -- SPARE
SPARE -- 20/1 17 38 20/1 -- SPARE
SPARE -- 20/1 18 39 20/1 -- SPARE
SPARE -- 20/1 19 40 20/1 -- SPARE
SPARE -- 20/1 20 41 20/1 -- SPARE
SPARE -- 20/1 21 42 20/1 -- SPARE
TOTAL CONNECTED LOAD: VA

NEW PANEL HM
SERVICE: 480Y/277V, 3φ
MAIN: 400A M.L.O.
PANEL A.I.C.: 25,000A
OPTIONS: EQUIP. GROUND BUS
SERVES VA CIR. BKR. CIR. # A B C CIR. # CIR. BKR. VA SERVES
SPARE -- 20/1 1 22 20/1 -- SPARE
SPARE -- 20/1 2 23 20/1 -- SPARE
SPARE -- 20/1 3 24 20/1 -- SPARE
SPARE -- 20/1 4 25 20/1 -- SPARE
SPARE -- 20/1 5 26 20/1 -- SPARE
SPARE -- 20/1 6 27 20/1 -- SPARE
SPARE -- 20/1 7 28 20/1 -- SPARE
SPARE -- 20/1 8 29 20/1 -- SPARE
SPARE -- 20/1 9 30 20/1 -- SPARE
SPARE -- 20/1 10 31 20/1 -- SPARE
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SPARE -- 20/1 14 35 20/1 -- SPARE
SPARE -- 20/1 15 36 20/1 -- SPARE
SPARE -- 20/1 16 37 20/1 -- SPARE
SPARE -- 20/1 17 38 20/1 -- SPARE
SPARE -- 20/1 18 39 20/1 -- SPARE
SPARE -- 20/1 19 40 20/1 -- SPARE
SPARE -- 20/1 20 41 20/1 -- SPARE
SPARE -- 20/1 21 42 20/1 -- SPARE
TOTAL CONNECTED LOAD: VA

NEW PANEL DPE
SERVICE: 208Y/210V, 3φ, 4W
MAIN: 500A-3P MAIN BREAKER
PANEL A.I.C.: 10,000A
OPTIONS: EQUIP. GROUND BUS
NEMA 3R ENCLOSURE
SERVES VA CIR. BKR. CIR. # A B C CIR. # CIR. BKR. VA SERVES
SPARE -- 20/1 1 22 20/1 -- SPARE
SPARE -- 20/1 2 23 20/1 -- SPARE
SPARE -- 20/1 3 24 20/1 -- SPARE
SPARE -- 20/1 4 25 20/1 -- SPARE
SPARE -- 20/1 5 26 20/1 -- SPARE
SPARE -- 20/1 6 27 20/1 -- SPARE
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SPARE -- 20/1 15 36 20/1 -- SPARE
SPARE -- 20/1 16 37 20/1 -- SPARE
SPARE -- 20/1 17 38 20/1 -- SPARE
SPARE -- 20/1 18 39 20/1 -- SPARE
SPARE -- 20/1 19 40 20/1 -- SPARE
SPARE -- 20/1 20 41 20/1 -- SPARE
SPARE -- 20/1 21 42 20/1 -- SPARE
TOTAL CONNECTED LOAD: VA

NEW MAIN SWITCHBOARD MSBE

VOLTAGE	MAINS	BRANCH CIRCUIT NO.	BRANCH BREAKER	A.I.C.	SERVICE
480Y/277V, 4 WIRE (1,050 KVVA)	1600A-3P SOLID STATE TRIP BREAKER WITH GROUND FAULT PROT.	1	60A-3P	35,000	SPD-1
	35,000 A.I.C. MINIMUM	2	40A-3P	35,000	RELOCATED ATSPANEL LX
		3	100A-3P	35,000	EXISTING 25HP ELEVATOR
		4	225A-3P	35,000	NEW XFMR. T-DPE
		5	225A-3P	35,000	NEW PANEL HM
		6	225A-3P	35,000	EXISTING PANEL LA
		7	--	--	225A SPACE
		8	--	--	225A SPACE
		9	400A-3P	35,000	EXISTING PANEL HPA
		10	400A-3P	35,000	EXISTING PANEL PA
		11	600A-3P	35,000	EXISTING PANEL HA

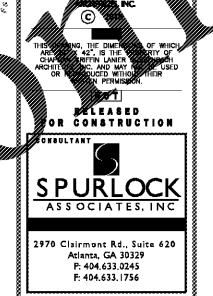
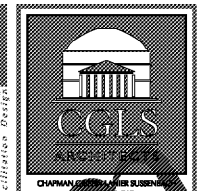
NOTES:
1. SWITCHBOARD SHALL BE GENERAL ELECTRIC SPECTRA SERIES
2. BUS BAR STRUCTURE SHALL BE BRACED FOR 35,000 AMPS.
3. PROVIDE W.L. SERVICE ENTRANCE LABEL.
4. PROVIDE ADJUSTABLE ELECTRONIC TRIP MAIN BREAKER WITH BUILT-IN AMPERE METER. VOLT-METER SETTINGS FOR THE SOLID STATE TRIP BREAKER SHALL BE AS FOLLOWS:

TRIP FUNCTION	TIMES RATED AMPERES	TIME DELAY SECONDS
CURRENT SETTING	1	--
INSTANTANEOUS	--	--
LONG TIME	--	10.0
SHORT TIME	125	0.2
GROUND FAULT	1200A IEC	0.35

BRANCH CIRCUIT BREAKERS SHALL BE HORIZONTALLY NUMBERED AND ARRANGED IN THE ORDER SCHEDULED ABOVE. PROVIDE A PLASTIC NAMEPLATE FOR EACH. PROVIDE A GROUND BUSH IN EACH DISTRIBUTION SECTION.
7. PROVIDE FULL HEIGHT VERTICAL BUS IN EACH SECTION
8. CIRCUIT BREAKERS SHALL BE SERIES RATED WITH PANELS SERVED
9. PROVIDE LABELS FOR THE FAULT CURRENT PER NEC 110.24 AND SERIES COMBINATION RATINGS PER NEC 110.22
10. PROVIDE 120V/240V METER WITH DRY CONTACTS AND BAGNET CONNECTION FOR BUILDING ENERGY MANAGEMENT SYSTEM MONITORING.
11. PROVIDE MAINTENANCE SWITCH.
12. PROVIDE NEMA 3R ENCLOSURE.

ENABLING LOAD SUMMARY - MSBE

	DEMAND LOAD
LIGHTING	157,000 VA
RECEPTACLES	156,000 VA
MISC.	42,000 VA
ELEVATOR (25HP)	63,000 VA
HVAC SYSTEM	652,000 VA
TOTALS	1,050,000 VA

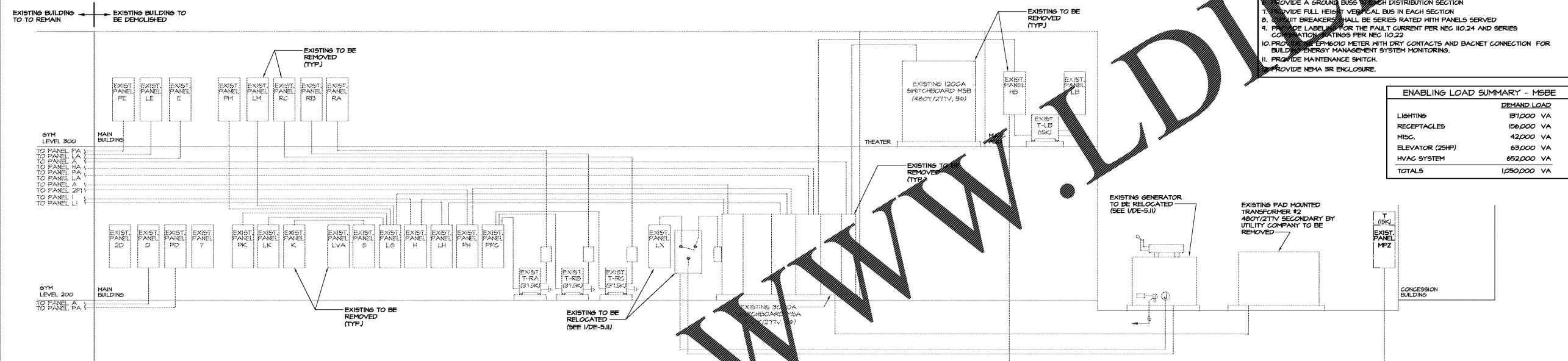


DATE	NO.	DESCRIPTION
03/27/18		0000 PRELIMINARY SCHEMATIC DESIGN DEVELOPMENT
04/18/18		0000 CONSTRUCTION DOCUMENTS
04/17/18		0000 CONSTRUCTION PERMIT SET
07/19/18		0000 FINAL SCHEMATIC PERMIT SET
11/02/18		0000 FINAL SCHEMATIC PERMIT SET FOR REVISIONS

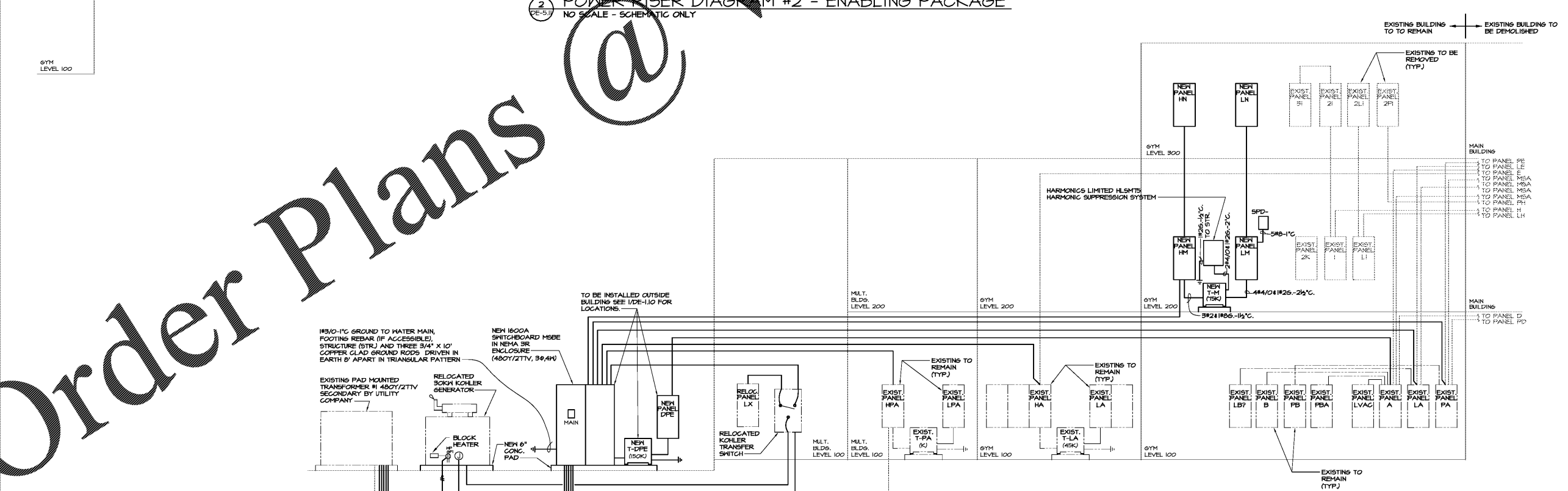
DOE FACILITY CODE: 660 - 3066
RIVERWOOD HIGH SCHOOL-PHASE 3-8 AUDITORIUM / GYMNASIUM ADDITION
5900 RAIDER DRIVE NW SANDY SPRINGS, GA 30328
FULTON COUNTY SCHOOLS RFP NO. 411-19

SHEET TITLE
ELECTRICAL SCHEDULES AND RISER DIAGRAMS ENABLING PACKAGE
PROJECT NO. 18015.02
DATE 09/17/18
DRAWN BY G.T.R.
CHECKED BY B.L.S.

DE-5.11



POWER RISER DIAGRAM #2 - ENABLING PACKAGE
NO SCALE - SCHEMATIC ONLY



POWER RISER DIAGRAM #1 - ENABLING PACKAGE
NO SCALE - SCHEMATIC ONLY