

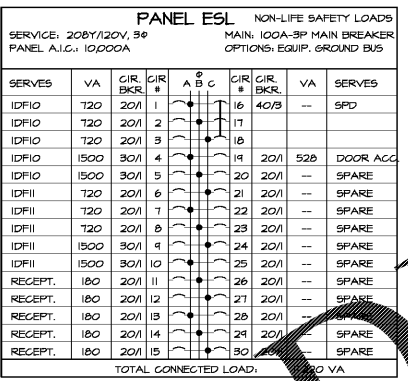
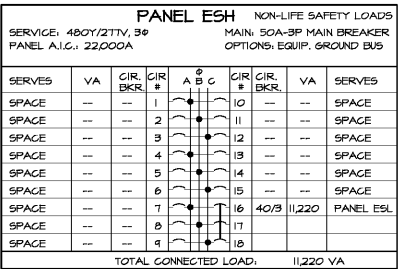
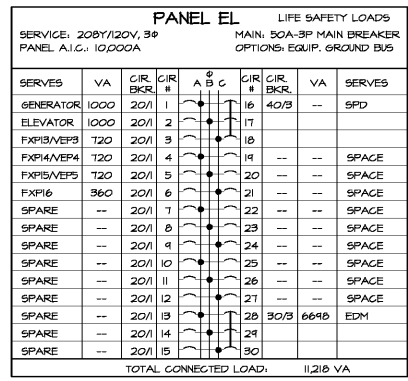
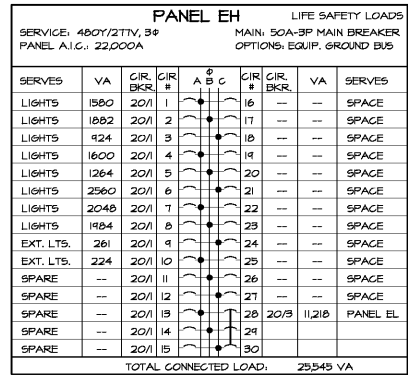
TRANSFORMER SCHEDULE					
TYPE	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	TAPS	MANUFACTURER & MODEL NO.
T-EL	15	480V - 3Ø DELTA	208Y/120V 3Ø - NYE	4 2-1/2% FCBN 2 2-1/2% FCAN	GENERAL ELECTRIC 9T10A1001
T-ES	30	480V - 3Ø DELTA	208Y/120V 3Ø - NYE	4 2-1/2% FCBN 2 2-1/2% FCAN	GENERAL ELECTRIC 9T10A1002
T-D	45	480V - 3Ø DELTA	208Y/120V 3Ø - NYE	4 2-1/2% FCBN 2 2-1/2% FCAN	GENERAL ELECTRIC 9T10A1003
T-AB,CE	75	480V - 3Ø DELTA	208Y/120V 3Ø - NYE	4 2-1/2% FCBN 2 2-1/2% FCAN	GENERAL ELECTRIC 9T10A1004
T-DM	112½	480V - 3Ø DELTA	208Y/120V 3Ø - NYE	4 2-1/2% FCBN 2 2-1/2% FCAN	GENERAL ELECTRIC 9T10A1005

SURGE PROTECTIVE DEVICE								
TYPE	VOLTAGE	UL 1441 RATINGS	MIN. PROTECTION RATINGS PER MODE - AMPS				MANUFACTURER & MODEL NO.	
			PER Ø	L-L	L-N	L-G	N-G	
SPD-2, 3, 4, 5, 6, 7, 8	480Y/277V	1000V L-N	300,000	150,000	150,000	150,000	150,000	CURRENT TECHNOLOGY TS150-277/480-3ØY-DM
	208Y/120V	400V L-N	120,000	60,000	60,000	60,000	60,000	CURRENT TECHNOLOGY XN60-120/208-3ØY

NOTES:  
1. PROVIDE SURGE COUNTER ON SPD-1 AND STATUS LIGHTS ON ALL DEVICES.  
2. SPD UNITS OF THE CAPACITIES LISTED BUILT IN THE PANELS INDICATED BY THE MANUFACTURER ARE ACCEPTABLE.

MECH. EQUIP. LEGEND				
SYMBOL	DESC. S/N	CONDUCTORS	OLTS	
EF-12E1	BLT.-IN	2#12	120	
EF-12E2,13,14	BLT.-IN	2#12	120	
FGH-3(OA)	3Ø/3	3#12	208-1Ø	
HP-3(OA)	3Ø/2/5 **	2#12	208-1Ø	
FGH-1(2)	3Ø/3	3#12	208-1Ø	
HP-1(2)	3Ø/2/5 **	2#12	208-1Ø	
FGH-2(2)	3Ø/3	3#12	208-1Ø	
HP-2(2)	3Ø/2/2 **	2#12	208-1Ø	
FGH-14(12)	3Ø/3	3#12	208-1Ø	
GH-14(12)	3Ø/2/5 **	2#12	208-1Ø	
FG-3(30)	3Ø/3	3#10	208-1Ø	
GU-3(30)	3Ø/2/30 **	2#10	208-1Ø	
EH-1 (3KV)	BLT.-IN	2#12	277	
H06	3Ø/2/5 *	2#12	277	
H04	3Ø/2/5 *	2#12	277	
H12	3Ø/2/5 *	2#12	277	
H18	3Ø/2/5 *	2#12	277	
H24	3Ø/2/5 *	2#12	277	
H30	3Ø/2/20 *	2#12	277	
H36	3Ø/2/25 *	2#10	277	
H42	3Ø/3/5	3#12	480-3Ø	
H48	3Ø/3/5	3#12	480-3Ø	
H60	3Ø/3/20	3#12	480-3Ø	
R24	3Ø/2/30RT	2#10	208-1Ø	
R36	3Ø/3/15RT	3#12	480-3Ø	
R48	3Ø/3/15RT	3#12	480-3Ø	
R60	3Ø/3/20RT	3#12	480-3Ø	
R12	3Ø/3/20RT	3#12	480-3Ø	
R12	3Ø/3/20RT	3#10	480-3Ø	
R120	3Ø/3/30RT	3#10	480-3Ø	
R144	3Ø/3/30RT	3#10	480-3Ø	
R180	6Ø/3/45RT	3#6-1½"	480-3Ø	
R240	6Ø/3/50RT	3#6-1½"	480-3Ø	
R300	6Ø/3/60RT	3#6-1½"	480-3Ø	
ERU-5	200/3/10RT	3#2-1½"	480-3Ø	
ELEV. (6ØHP)	200/3/150	3#3/Ø1#46-2"	480-3Ø	
EH-12 (27KV)	6Ø/3	3#6-1½"	480-3Ø	
EH-13 (18KV)	3Ø/3	3#10	480-3Ø	

GENERAL NOTE:  
- PROVIDE GREEN GROUND CONDUCTOR IN ALL FLEXIBLE METAL CONDUIT SIZED PER THE N.E.C.  
\* ONLY ONE FUSE REQUIRED  
\*\* ALL DISCONNECTS INSTALLED OUTDOORS SHALL HAVE RAINIGHT ENCLOSURES, NEMA 3R



**PANELBOARD NOTES:** (APPLIES TO SHEETS E6.1A-B)

- 480Y/277V BRANCH CIRCUIT PANELS SHALL BE GENERAL ELECTRIC TYPE AE. 208Y/120V BRANCH CIRCUIT PANELS SHALL BE TYPE AG.
- BRANCH CIRCUIT BREAKERS SHALL BE ARRANGED IN THE PANEL AS SHOWN.
- THO SECTION PANELS SHALL HAVE SECTIONS OF EQUAL HEIGHT.
- GFCI CIRCUIT BREAKERS SERVING THAT TRACE T-Ø3 SHALL BE 3Ø/ØA. EQUIPMENT PROTECTION TYPE ALL OTHER GFCI BREAKERS SHALL BE 6ØA PERSONNEL PROTECTIVE.
- THO PANELS SERVING HAND TRUCKS SHALL HAVE HANDLE LOCKING DEVICES.
- CONDUIT TO MULTIPLE POLE CIRCUIT BREAKERS SHALL HAVE A NUMBER CORRESPONDING TO THE NUMBER OF THE FIRST POLE OF THE BREAKER IN THE PANEL.
- SERIES MAIN AND BRANCH CIRCUIT BREAKERS SHALL BE ACCEPTABLE.
- PANELBOARDS SHALL HAVE DOOR-IN-DOOR FRONT TRIM WHERE FRONT IS HINGED TO BOX.
- AN UNWRITTEN DIRECTORY OF CIRCUIT NUMBERS SHALL BE INSTALLED UNDER CLEAR PLASTIC INSIDE EACH PANELBOARD DOOR. DIRECTORIES SHALL INDICATE THE TYPE OF LOAD SERVED (I.E. LIGHTS, RECEPTACLES, HVAC UNITS, ETC) AND THE ROOM NUMBER OF THE ROOMS SERVED BY THE CIRCUIT.
- CONTRACTOR SHALL PROVIDE HANDLE TIES WHERE MULTIPLE CIRCUITS IN THE SAME HOMERUN CONDUIT UTILIZE A COMMON NEUTRAL CONDUCTOR.

MAIN SWITCHBOARD MSB					
VOLTAGE	MAINS	BRANCH CIRCUIT NO.	BRANCH BREAKER	A.I.G.	SERVICE
480Y/277V 3Ø, 4 WIRE (1155 KVA)	2000A-3Ø SOLID STATE TRIP BREAKER WITH GROUND FAULT PROT. 35,000 A.I.G. MINIMUM	DISTRIBUTION SECTION 1			
		1	60A-3Ø	35,000	SPD-1
		2	50A-3Ø	35,000	PANEL ESH
		3	50A-3Ø	35,000	PANEL ESH
		4	100A-3Ø	35,000	ERU-5
		5	150A-3Ø	35,000	XFMR, T-DM
		6	200A-3Ø	35,000	ELEVATOR
		7	--	--	225A SPACE
		8	--	--	225A SPACE
		DISTRIBUTION SECTION 2			
		9	400A-3Ø	35,000	PANEL HA
		10	400A-3Ø	35,000	PANEL HB
		11	400A-3Ø	35,000	PANEL HC
		12	400A-3Ø	35,000	PANEL HD
		13	400A-3Ø	35,000	HE
		14	--	--	400A SPACE

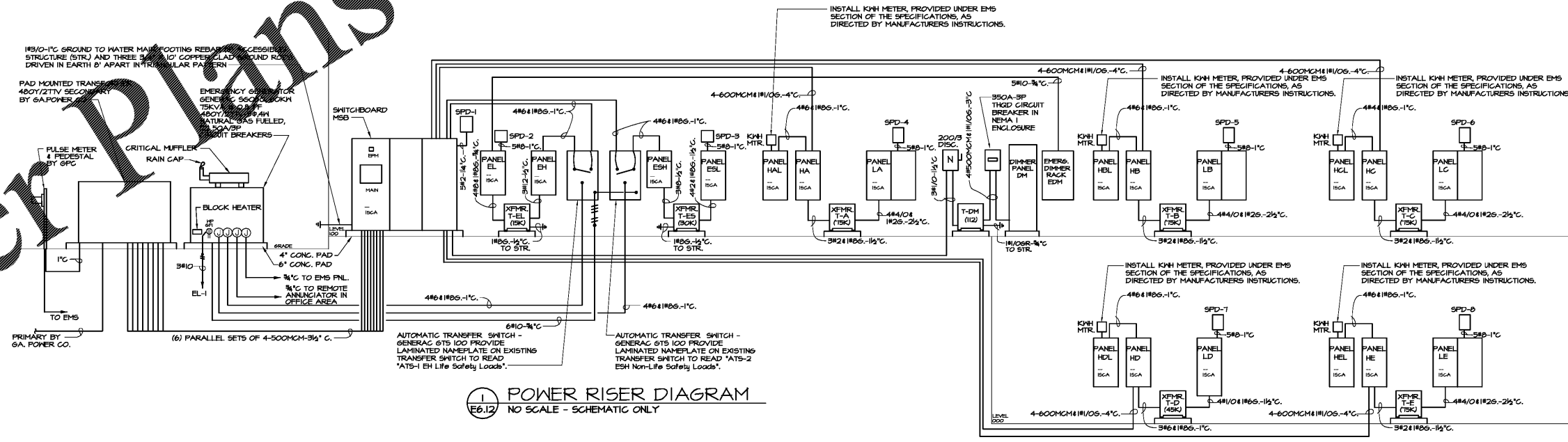
**NOTES:**

- SWITCHBOARD SHALL BE GENERAL ELECTRIC TYPE 3Ø/ØA.
- BUS BAR STRUCTURE SHALL BE BRACED PER 65.0 AMP.
- PROVIDE UL TYPE SURGE ENTRANCE LIMITER.
- PROVIDE ADJUSTABLE ELECTRONIC TRIP MAIN BREAKER WITH BUILT-IN AMPMETER AND VOLT-METER. SETTINGS FOR THE SOLID STATE TRIP MAIN BREAKER SHALL BE AS FOLLOWS:

TRIP FUNCTION	TRIP RATED CURRENT	TRIP DELAY SECONDS
OVERCURRENT	1.0	--
INSTANTANEOUS	5	--
LONG TIME	1.1	10.0
SHORT TIME	4	0.35
GROUND FAULT	1200A MAX.	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 BUSS IN EACH DISTRIBUTION SECTION.
- PROVIDE FULL HEIGHT VERTICAL BUS IN EACH SECTION.
- CIRCUIT BREAKERS SHALL BE SERIES RATED WITH PANELS SERVED.
- PROVIDE LABELING FOR THE FAULT CURRENT PER NEC 110.24 AND SERIES COMBINATION RATINGS PER NEC 110.22.
- PROVIDE 6Ø EPMBØ1Ø METER WITH DRY CONTACTS AND BAGNET CONNECTION FOR BUILDING ENERGY MANAGEMENT SYSTEM MONITORING.
- PROVIDE MAINTENANCE SWITCH.

LOAD SUMMARY		
LIGHTINGS - INTERIOR	108,962 VA	108,962 VA
RECEPTACLES	210,904 VA	110,452 VA
MATER HEATING	36,000 VA	36,000 VA
ELEVATORS (1 Ø 6ØHP)	91,410 VA	91,410 VA
HVAC SYSTEM	684,733 VA	684,733 VA
STRIP HEAT	18,000 VA	0 VA
TOTALS	1,155,004 VA	1,036,557 VA



Order Plans @ WWW.WWWDRAWING.COM

CHAPMAN GRIFFIN LANIER SUSSENBACH ARCHITECTS

DOE FACILITY CODE: 660 - 3066

RIVERWOOD HIGH SCHOOL-PHASE 3-8 AUDITORIUM / GYMNASIUM ADDITION

5910 RAIDER DRIVE NW SANDY SPRINGS, GA 30328

FULTON COUNTY SCHOOLS RFP NO. 411-19

SHEET TITLE: ELECTRICAL SCHEDULES & DETAILS

PROJECT NO.: 18015.02

DATE: 09/17/18

DRAWN BY: G.T.R.