SURGE PROTECTIVE DEVICE

TYPE	VOLTAGE	U.L. 1449 RATING	MIN. PROTECTION RATINGS PER MODE - AMPS					MANUFACTURER & MODEL NO.
			PER Φ	L-L	L-N	L-G	N-G	
SPD-1	208Y/120V	400V L-N	300,000	150,000	150,000	150,000	150,000	CURRENT TECHNOLOGY TG3-150-208-3Y-MN
SPD-2	208Y/120V	400V L-N	160,000	80,000	80,000	80,000	80,000	CURRENT TECHNOLOGY CG-080-120/208-3GY

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.

PANEL LC

SERVICE: 208Y/120V, 3Φ, 4W — MAIN: 400A M.L.O.
PANEL A.I.C.: 22,000A — OPTIONS: EQUIP. GROUND BUS, FEED-THRU LUGS
SECTION #1

SERVES	VA	CIR. BKR.	CIR #	CIR #	CIR. BKR.	VA	SERVES
EF-2&4	110	20/1	1	22	15/2	2300	HAND DRY.
EF-1&3	558	20/1	2	23			
RECIRC.	528	20/1	3	24	15/2	2300	HAND DRY.
SPARE	--	20/1	4	25			
SPARE	--	20/1	5	26	15/2	2300	HAND DRY.
SPARE	--	20/1	6	27			
SPARE	--	20/1	7	28	15/2	2300	HAND DRY.
SPARE	--	20/1	8	29			
SPARE	--	20/1	9	30	20/2	1500	EH-1
SPARE	--	20/1	10	31			
SPARE	--	20/1	11	32	20/2	1500	EH-1
SPARE	--	20/1	12	33			
SPARE	--	20/1	13	34	20/2	1500	EH-1
SPARE	--	20/1	14	35			
SPARE	--	20/1	15	36	20/2	3000	EH-2
SPARE	--	20/1	16	37			
SPARE	--	20/1	17	38	20/2	3000	EH-2
SPARE	--	20/1	18	39			
SPARE	--	20/1	19	40	20/2	3000	WH-1
SPARE	--	20/1	20	41			
SPARE	--	20/1	21	42	--	--	SPACE

SECTION #2 — MAIN: 400A M.L.O. OPTIONS: EQUIP. GND. BUS

SERVES	VA	CIR. BKR.	CIR #	CIR #	CIR. BKR.	VA	SERVES
FC/HP-1	1186	20/2	43	64	30/2	2788	V30
(12)			44	65			
FC/HP-2	1186	20/2	45	66	30/2	2788	V30
(12)			46	67			
V30	2788	30/2	47	68	30/2	2788	V30
			48	69			
V30	2788	30/2	49	70	40/2	4784	HP-3
			50	71			(48)
V30	2788	30/2	51	72	60/3	12,548	FC-3
			52	73			
V30	2788	30/2	53	74			
			54	75	--	--	SPACE
V30	2788	30/2	55	76	--	--	SPACE
			56	77	--	--	SPACE
V30	2788	30/2	57	78	--	--	SPACE
			58	79	--	--	SPACE
V30	2788	30/2	59	80	--	--	SPACE
			60	81	--	--	SPACE
V30	2788	30/2	61	82	--	--	SPACE
			62	83	--	--	SPACE
SPACE	--	--	63	84	--	--	SPACE

TOTAL CONNECTED LOAD: 74,26[illegible] VA

PANEL LB

SERVICE: 208Y/120V, 3Φ, 4W — MAIN: 225A M.L.O.
PANEL A.I.C.: 22,000A — OPTIONS: EQUIP. GROUND BUS, FEED-THRU LUGS
SECTION #1

SERVES	VA	CIR. BKR.	CIR #	CIR #	CIR. BKR.	VA	SERVES
RECEPT'S.	360	20/1 GFCI	1	22	20/1	400	DOOR ACC
RECEPT'S.	900	20/1	2	23	20/1	360	RECEPT'S.
FXP	360	20/1	3	24	20/1	360	RECEPT'S.
RECEPT'S.	360	20/1	4	25	20/1	360	RECEPT'S.
RECEPT'S.	1260	20/1	5	26	20/1	1080	RECEPT'S.
RECEPT'S.	360	20/1	6	27	20/1	900	RECEPT'S.
RECEPT'S.	360	20/1	7	28	20/1	360	RECEPT'S.
RECEPT'S.	360	20/1	8	29	20/1	360	RECEPT'S.
RECEPT'S.	360	20/1	9	30	20/1	360	RECEPT'S.
RECEPT'S.	1260	20/1	10	31	20/1	360	RECEPT'S.
RECEPT'S.	360	20/1	11	32	20/1	360	RECEPT'S.
EWCx2	840	20/1 GFCI	12	33	20/1	1080	RECEPT'S.
RECEPT'S.	720	20/1	13	34	20/1	720	RECEPT'S.
RECEPT'S.	360	20/1	14	35	20/1	1080	RECEPT'S.
RECEPT'S.	360	20/1	15	36	20/1	360	RECEPT'S.
RECEPT'S.	360	20/1	16	37	20/1	360	RECEPT'S.
RECEPT'S.	720	20/1	17	38	20/1	360	RECEPT'S.
RECEPT'S.	900	20/1	18	39	20/1	720	RECEPT'S.
RECEPT'S.	360	20/1	19	40	20/1	1080	RECEPT'S.
RECEPT'S.	360	20/1	20	41	20/1	360	RECEPT'S.
RECEPT'S.	180	20/1	21	42	20/1	360	RECEPT'S.

SECTION #2 — MAIN: 225A M.L.O. OPTIONS: EQUIP. GND. BUS

SERVES	VA	CIR. BKR.	CIR #	CIR #	CIR. BKR.	VA	SERVES
RECEPT'S.	1080	20/1	43	64	60/3	10	SPD-2
RECEPT'S.	900	20/1	44	65			
RECEPT'S.	360	20/1	45	66			
RECEPT'S.	360	20/1	46	67	20/1	50	EMS
RECEPT'S.	720	20/1	47	68	20/1	--	SPARE
RECEPT'S.	540	20/1	48	69	20/1	--	SPARE
DOOR ACC	400	20/1	49	70	20/1	--	SPARE
RECEPT'S.	1260	20/1	50	71	20/1	--	SPARE
RECEPT'S.	360	20/1	51	72	20/1	--	SPARE
RECEPT'S.	360	20/1	52	73	20/1	--	SPARE
RECEPT'S.	180	20/1	53	74	20/1	--	SPARE
RECEPT'S.	360	20/1	54	75	20/1	--	SPARE
RECEPT'S.	360	20/1	55	76	20/1	--	SPARE
RECEPT'S.	360	20/1	56	77	20/1	--	SPARE
RECEPT'S.	[illegible]	20/1	57	78	20/1	--	SPARE
RECEPT'S.	720	20/1	58	79	20/1	--	SPARE
DOOR ACC	800	20/1	59	80	20/1	--	SPARE
RECEPT'S.	720	20/1	60	81	20/1	--	SPARE
RECEPT'S.	720	20/1	61	82	20/1	--	SPARE
RECEPT'S.	720	20/1	62	83	20/1	--	SPARE
RECEPT'S.	720	20/1	63	84	20/1	--	SPARE

TOTAL CONNECTED LOAD: 36,470 VA

MAIN DISTRIBUTION PANEL MDP

SERVICE: 208Y/120V, 3Φ, 4W — MAIN: 500A-3P MAIN BREAKER
PANEL A.I.C.: 65,000A — OPTIONS: EQUIP. GROUND BUS, U.L. SERVICE ENTRANCE LABEL

SERVES	VA	CIR. BKR.	CIR #	CIR #	CIR. BKR.	VA	SERVES
SPD-1	50	100/3	1	8	--	--	SPACE
PANEL LA	7707	60/3	2	9	--	--	SPACE
PANEL LB	36,470	225/3	3	10	--	--	SPACE
PANEL LC	74,268	300/3	4	11	--	--	SPACE
SPACE	--	--	5	12	--	--	SPACE
SPACE	--	--	6	13	--	--	SPACE
SPACE	--	--	7	14	--	--	SPACE

TOTAL CONNECTED LOAD: 118,4[illegible] VA

PANEL LA

SERVICE: 208Y/120V, 3Φ, 4W — MAIN: 100A M.L.O.
PANEL A.I.C.: [illegible]000A — OPTIONS: EQUIP. GROUND BUS

SERVES	VA	CIR. BKR.	CIR #	CIR #	CIR. BKR.	VA	SERVES
LIGHTING	775	20/1	1	16	--	--	SPACE
LIGHTING	[illegible]	20/1	2	17	--	--	SPACE
LIGHTING	1123	20/1	3	18	--	--	SPACE
LIGHTING	882	20/1	4	19	--	--	SPACE
LIGHTING	882	20/1	5	20	--	--	SPACE
LIGHTING	882	20/1	6	21	--	--	SPACE
LIGHTING	1047	20/1	7	22	--	--	SPACE
EXT. LTG.	903	20/1	8	23	--	--	SPACE
SPARE	--	20/1	9	24	--	--	SPACE
SPARE	--	20/1	10	25	--	--	SPACE
SPARE	--	20/1	11	26	--	--	SPACE
SPARE	--	20/1	12	27	--	--	SPACE
SPARE	--	20/1	13	28	--	--	SPACE
SPARE	--	20/1	14	29	--	--	SPACE
SPARE	--	20/1	15	30	--	--	SPACE

TOTAL CONNECTED LOAD: 7707 VA

MECH. EQUIP. LEGEND

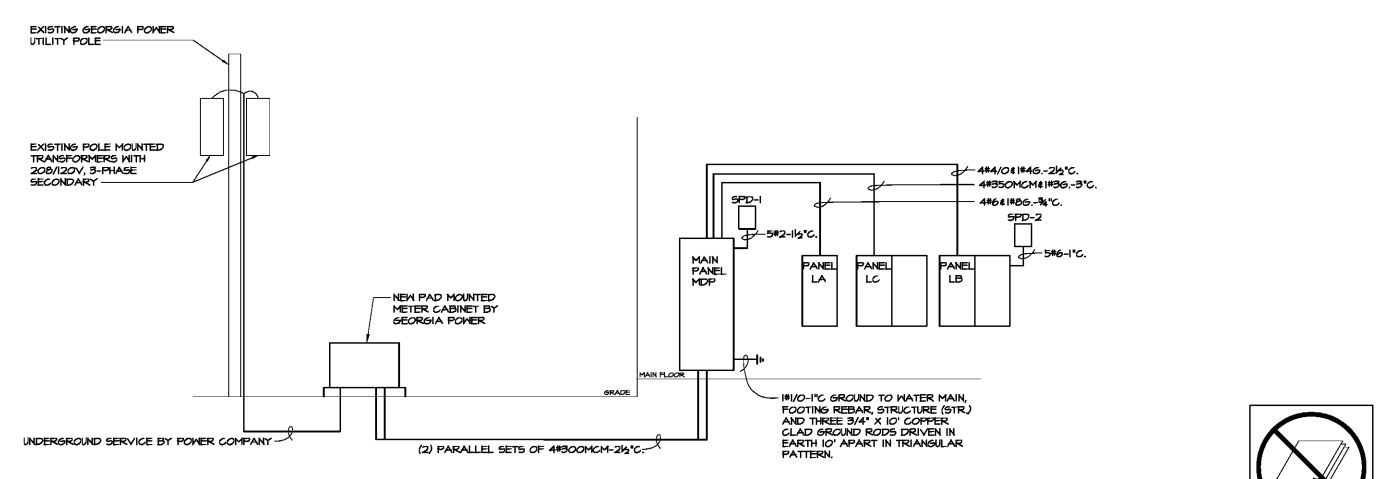
SYMBOL	DISC. SW.	CONDUCTORS	VOLTS
EF-1,2,3,4	BLT.-IN	2#12	120
EH-1 (1.5KW)	BLT.-IN	2#12	208-1Φ
EH-2 (3KW)	BLT.-IN	2#10	208-1Φ
FC-1 (12)	30/3	3#12	208-1Φ
HP-1 (12)	30/2/15 **	2#12	208-1Φ
FC-2 (12)	30/3	3#12	208-1Φ
HP-2 (12)	30/2/15 **	2#12	208-1Φ
FC-3 (11.3KW)	60/3/50	3#6-1"C.	208-3Φ
HP-3 (48)	60/2/40 **	2#8-¾"C.	208-1Φ
V30	30/2/30 **	2#10	208-1Φ
WH-1 (3KW)	30/2	2#10	208-1Φ

GENERAL NOTE:
- PROVIDE GREEN GROUND CONDUCTOR IN ALL FLEXIBLE METAL CONDUIT SIZED PER THE N.E.C.

NOTES:
- * ONLY ONE FUSE REQUIRED.
- ** ALL DISCONNECTS INSTALLED OUTDOORS SHALL HAVE RAINTIGHT ENCLOSURES, NEMA 3R.

PANELBOARD NOTES:

1. 208Y/120V BRANCH CIRCUIT PANELS SHALL BE TYPE AQ.
2. BRANCH CIRCUIT BREAKERS SHALL BE VERTICALLY NUMBERED AND ARRANGED IN THE PANELS IN THE ORDER SHOWN.
3. PROVIDE GROUND BUSS IN EACH PANEL.
4. TWO SECTION PANELS SHALL HAVE TWO EQUAL HEIGHT SECTIONS.
5. SERIES RATED MAIN AND BRANCH CIRCUIT BREAKERS SHALL BE ACCEPTABLE IF EQUIVALENT TO INTERRUPTING CAPACITY SHOWN ABOVE.
6. THE HOMERUN TO MULTIPLE POLE CIRCUIT BREAKERS SHALL HAVE A SINGLE NUMBER CORRESPONDING TO THE NUMBER OF THE FIRST POLE OF THE BREAKER IN THE PANEL.
7. CIRCUIT BREAKERS SERVING HAND DRYERS SHALL HAVE HANDLE LOCK-OFF DEVICES.
8. ALL PANELBOARDS SHALL HAVE DOOR-IN-DOOR FRONT TRIM WHERE FRONT IS HINGED TO BOX.
9. PANELBOARDS SHALL HAVE COPPER BUSS BARS.
10. A TYPEWRITTEN 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.
11. CONTRACTOR SHALL PROVIDE HANDLE TIES WHERE MULTIPLE CIRCUITS IN THE SAME HOMERUN CONDUIT UTILIZE A COMMON NEUTRAL CONDUCTOR.
12. GFCI CIRCUIT BREAKERS SERVING HEAT TRACE TAPE SHALL BE 30mA EQUIPMENT PROTECTION TYPE. ALL OTHER GFCI BREAKERS SHALL BE 4-6mA PERSONNEL PROTECTION TYPE.



1 / E6.2 POWER RISER DIAGRAM
NOT TO SCALE

DRAWING ISSUE RECORD

DATE:	REVISIONS:	NO.
4-6-2021	ISSUE TO BID	

ADDITION TO COLHAM FERRY ELEMENTARY SCHOOL
191 COLHAM FERRY ROAD, WATKINSVILLE, GA 30677
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