PANEL LA-EX

VOLTAGE 120 / 208 — PHASE 3 WIRE 4 — BUS AMPS 400
PANEL LA-EX — MAIN AMPS 400
LOCATION SUPPORT A107 — MOUNTING SURFACE — MAIN BREAKER

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
AIR HANDLING UNIT				30	2	1	A	2	2	20				2* RIDING ARENA
						3	B	4						
AIR HANDLING UNIT				30	2	5	C	6	2	20				2* RIDING ARENA
						7	A	8						
2* RIDING ARENA				20	2	9	B	10	2	20				BUSTING RING
						11	C	12						
2* RIDING ARENA				20	2	13	A	14	2	20				H.I.D.
						15	B	16						
1* RIDING ARENA				20	2	17	C	18	2	50				OVER STALLS A/C
						19	A	20						
1* RIDING ARENA				20	2	21	B	22	2	50				OVER STALLS A/C
						23	C	24						
1* REC IN 5 STALLS				20	1	25	A	26	1	20				1* CONTACTOR EXT. LTG.
HEATER IN RINK				20	1	27	B	28	1	20				1* CONTACTOR EXT. LTG.
1* LIGHTS IN 5 STALLS				20	1	29	C	30	1	20				1* TIME CLOCK EXT. LTG.
1* HEATER OVER STALLS				20	1	31	A	32	1	20				1* TIME CLOCK CUPOLAS
1* LTG. HALL & CONTACT.				20	1	33	B	34	1	20				RECEPT. IN RIDING
HEATER IN RINK				20	1	35	C	36	1	20				RINK
				225	3	37	A	38	3	200				
						39	B	40						
						41	C	42						
TOTALS	0	0	0								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 0 — TOTAL 0

REMARKS: EXISTING PANEL TO BE MODIFIED. SEE SCHEDULE LA-MOD FOR MODIFICATIONS TO EXISTING PANEL.
1* EXISTING BREAKER TO BECOME A SPARE TO BE REUSED. VERIFY LOAD ON EXISTING BREAKER IS REMOVED.
2* EXISTING BREAKER TO BE REMOVED

PANEL LA2-EX

VOLTAGE 120 / 208 — PHASE 3 WIRE 4 — BUS AMPS 225
PANEL LA2-EX — MAIN AMPS 225
LOCATION SUPPORT A107 — MOUNTING SURFACE — MAIN LUGS

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
WATER HEATER				40	2	1	A	2	2	20				SEWAGE PUMP
						3	B	4						
SEWAGE PUMP				20	1	5	C	6	1	20				BR
BR				20	1	7	A	8	1	20				
REC.				20	1	9	B	10	2	50				
WASHER				20	1	11	C	12						
2 TON OUTDOOR				30	2	13	A	14	1	20				
						15	B	16	1	20				
				30	2	17	C	18	1	20				
						19	A	20	1	20				
				20	2	21	B	22	1	20				
						23	C	24	1	20				DRYER
				20	1	25	A	26	1	20				OFFICE
				20	1	27	B	28	1	20				
				20	1	29	C	30	1	20				
				20	1	31	A	32	1	20				
				20	1	33	B	34	2	20				
				20	1	35	C	36						
2 TON AHU				30	2	37	A	38	2	20				PUMP FOR ARENA
						39	B	40						
TACK ROOM				20	1	41	C	42	1	20				LTS. WASH STALLS
TOTALS	0	0	0								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 0 — TOTAL 0

REMARKS: EXISTING PANEL TO REMAIN.

PANEL LA-MOD

VOLTAGE 120 / 208 — PHASE 3 WIRE 4 — BUS AMPS 400
PANEL LA-MOD — MAIN AMPS 400
LOCATION SUPPORT A107 — MOUNTING SURFACE — MAIN BREAKER

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
AIR HANDLING UNIT				30	2	1	A	2	1	20			500	5* COFFEE RECEPT.
						3	B	4	1	20		500		5* COFFEE RECEPT.
AIR HANDLING UNIT				30	2	5	C	6	1	20	500			5* COFFEE RECEPT.
						7	A	8	1	20			500	5* COFFEE RECEPT.
4* TVSS				60	3	9	B	10	2	20				BUSTING RING
						11	C	12						
						13	A	14	2	20				H.I.D.
5* REFRIGERATOR		500		20	1	15	B	16						
SPARE				20	2	17	C	18	2	50				OVER STALLS A/C
						19	A	20						
SPARE				20	2	21	B	22	2	50				OVER STALLS A/C
						23	C	24						
3* STORAGE RECEPT.	200			20	1	25	A	26	1	20			200	3* SERVE RECEPT.
HEATER IN RINK				20	1	27	B	28	1	20		200		3* SERVE RECEPT.
3* EXTERIOR RECEPT.			400	20	1	29	C	30	1	20	200			3* SERVE RECEPT.
3* GATHERING RECEPT.	1200			20	1	31	A	32	1	20			800	3* PASTOR RECEPT.
3* EXTERIOR RECEPT.		800		20	1	33	B	34	1	20				RECEPT. IN RIDING
HEATER IN RINK				20	1	35	C	36	1	20				RINK
				225	3	37	A	38	3	200				
						39	B	40						
						41	C	42						
TOTALS	1400	1300	400								700	700	2000	

VOLT AMPS — BUS A 3400 — BUS B 2000 — BUS C 1100 — TOTAL 6500

REMARKS: EXISTING PANEL "LA-EX" WITH MODIFICATIONS.
3* NEW LOAD ON EXISTING SPARE BREAKER
4* PROVIDE NEW 60A/3P BREAKER FOR NEW TVSS. MATCH EXISTING BREAKER AIC RATING AND TYPE.
5* PROVIDE NEW GFCI BREAKER. MATCH EXISTING BREAKER AIC RATING AND TYPE.

PANEL LB

VOLTAGE 120 / 208 — PHASE 3 WIRE 4 — BUS AMPS 400
PANEL LB — MAIN AMPS 400
LOCATION STORAGE E111 — MOUNTING SURFACE — MAIN LUGS

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
** CORRIDOR LIGHTS	850			20	1	1	A	2	2					SPACE
** CUPOLA LIGHTS		260		20	1	3	B	4						
** STAIR E118 LIGHTS			280	20	1	5	C	6	2					SPACE
** STAIR E110 LIGHTS	280			20	1	7	A	8						
CLASSROOM LIGHTS		1140		20	1	9	B	10	2					SPACE
CLASSROOM LIGHTS			1000	20	1	11	C	12						
CLASSROOM LIGHTS	220			20	1	13	A	14	1	20				SPARE
CLASSROOM LIGHTS		650		20	1	15	B	16	1	20		400		MEZZANINE RECEPT.
STORAGE RECEPT.			1000	20	1	17	C	18	1	20	1000			NURSERY E104
CORRIDOR RECEPT.	800			20	1	19	A	20	1	20			200	NURSERY E104 CNTR.
CORRIDOR RECEPT.		600		20	1	21	B	22	1	20		800		CLASSROOM E112
STORAGE RECEPT.			1000	20	1	23	C	24	1	20	1000			CLASSROOM E112
CLASSROOM E108	800			20	1	25	A	26	1	20			1000	CLASSROOM E113
CLASSROOM E108		800		20	1	27	B	28	1	20		800		CLASSROOM E113
BATHROOM RECEPT.			200	20	1	29	C	30	1	20	800			CLASSROOM E114
CLASSROOM E106	1000			20	1	31	A	32	1	20			1200	CLASSROOM E114
CLASSROOM E106		1000		20	1	33	B	34	1	20		1200		OFFICE E115
TB			500	20	1	35	C	36	1	20	1000			PRAYER RECEPT.
ASSEMBLY LIGHTS	1350			20	1	37	A	38	1	20			600	OFFICE RECEPT.
ASSEMBLY LIGHTS		900		20	1	39	B	40	1	20		200		WOMEN RR RECEPT.
CORRIDOR RECEPT.			600	20	1	41	C	42	1	20	200			MEN RR RECEPT.
SPARE				20	1	43	A	44	2					SPACE
SPACE					2	45	B	46						
						47	C	48	2	25	1498			HPU / ACU-14
TVSS				60	3	49	A	50					1498	
						51	B	52	2					SPACE
						53	C	54						
TOTALS	5300	5350	4580								5498	3400	4498	

VOLT AMPS — BUS A 37827 — BUS B 41928 — BUS C 35715 — TOTAL 115470

REMARKS: 20,000 AIC RATING MINIIMUM
SECTION 1 OF 2
PROVIDE FEED THRU LUGS
54 POLE PANEL
** PROVIDE HASP LOCK FOR BREAKER

PANEL LB2

VOLTAGE 120 / 208 — PHASE 3 WIRE 4 — BUS AMPS 400
PANEL LB2 — MAIN AMPS 400
LOCATION STORAGE E111 — MOUNTING SURFACE — MAIN LUGS

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
STAIR RECEPT.	400			20	1	1	A	2	2	50			2808	HP-6
SPARE				20	1	3	B	4				2808		
SPARE				20	1	5	C	6	2	50	2808			HP-7
SPARE				20	1	7	A	8					2808	
STORAGE RECEPT.		800		20	1	9	B	10	2	60		4293		AH-6
ASSEMBLY RECEPT.			800	20	1	11	C	12			4293			
ASSEMBLY RECEPT.	800			20	1	13	A	14	2	60			4293	AH-7
ASSEMBLY RECEPT.		800		20	1	15	B	16				4293		
ASSEMBLY RECEPT.			400	20	1	17	C	18	2	25	1498			HPU / ACU-1
SPARE				20	1	19	A	20					1498	
SPARE				20	1	21	B	22	2	60		3630		HP-8
SPARE				20	1	23	C	24			3630			
SPARE				20	1	25	A	26	2	60			3630	HP-9
WH-2		500		20	1	27	B	28				3630		
RC-2			44	20	1	29	C	30	2	40	2138			HP-10
SPACE					1	31	A	32					2138	
SPACE					1	33	B	34	2	80		6148		AH-8
SPACE					1	35	C	36			6148			
EF-3	128			20	1	37	A	38	2	80			6148	AH-9
EF-4		128		20	1	39	B	40				6148		
MECH TIME CLOCK			500	20	1	41	C	42	2	45	3378			AH-10
SPACE					1	43	A	44					3378	
SPACE					2	45	B	46	2					SPACE
						47	C	48						
SPACE					3	49	A	50	2					SPACE
						51	B	52						
						53	C	54	1					SPACE
TOTALS	1328	2228	1744								23893	30950	26701	

VOLT AMPS — BUS A 28029 — BUS B 33178 — BUS C 25637 — TOTAL 86844

REMARKS: 20,000 AIC RATING MINIIMUM
SECTION 2 OF 2
54 POLE PANEL

PANEL LC

VOLTAGE 120 / 208 — PHASE 3 WIRE 4 — BUS AMPS 400
PANEL LC — MAIN AMPS 400
LOCATION MECH/ELEC W112 — MOUNTING SURFACE — MAIN LUGS

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
A/V FLR BOX	400			20	1	1	A	2	1	20			800	STAGE RECEPT.
A/V FLR BOX		400		20	1	3	B	4	1	20		600		STAGE RECEPT.
A/V FLR BOX			400	20	1	5	C	6	1	20	600			STAGE RECEPT.
LOBBY LIGHTS	900			20	1	7	A	8	1	20			600	STAGE RECEPT.
CORRIDOR LIGHTS		400		20	1	9	B	10	1	20		600		STAGE RECEPT.
FELLOWSHIP LIGHTS			950	20	1	11	C	12	1	20	800			STAGE RECEPT.
FELLOWSHIP LIGHTS	700			20	1	13	A	14	1	20			800	SUPPORT RECEPT.
*** FACP		500		20	1	15	B	16	1	20		400		STORAGE RECEPT.
RISER RECEPT.			600	20	1	17	C	18	1	20	400			STORAGE RECEPT.
WH-1	500			20	1	19	A	20	1	20			400	STAGE FLR BOX
RC-1		44		20	1	21	B	22	1	20		400		STAGE FLR BOX
MECH / ELEC. RECEPT.			600	20	1	23	C	24	1	20	400			STAGE FLR BOX
MECH / ELEC. RECEPT.	600			20	1	25	A	26	1	20			400	STAGE FLR BOX
MEN RR RECEPT.		200		20	1	27	B	28	1	20		400		STAGE FLR BOX
WOMEN RR RECEPT.			200	20	1	29	C	30	1	20	400			A/V FLR BOX
LOBBY RECEPT.	1200			20	1	31	A	32	1	20			400	A/V FLR BOX
CORRIDOR RECEPT.		1000		20	1	33	B	34	1	20		400		A/V FLR BOX
SUPPORT RECEPT.			600	20	1	35	C	36	1	20	400			A/V FLR BOX
EF-1	47			20	1	37	A	38	1	20			400	A/V FLR BOX
EF-2		47		20	1	39	B	40	1	20		400		A/V FLR BOX
MECH TIME CLOCK			500	20	1	41	C	42	1	20	1000			PROJECTORS
EWH-1	1500			20	1	43	A	44	1	20			400	MEZZANINE RECEPT.
FELLOWSHIP LIGHTS		830		20	1	45	B	46	1	20		220		MEZZANINE LIGHTS
LOBBY TV			400	20	1	47	C	48	1	20	400			CORRIDOR RECEPT.
TVSS				60	3	49	A	50	1	20				SPARE
						51	B	52	1	20				SPARE
						53	C	54	1	20				SPARE
TOTALS	5847	3421	4250								4400	3420	4200	

VOLT AMPS — BUS A 36714 — BUS B 36113 — BUS C 35327 — TOTAL 108154

REMARKS: 20,000 AIC RATING MINIIMUM
SECTION 1 OF 2
PROVIDE FEED THRU LUGS
54 POLE PANEL
*** LABEL CIRCUIT PER NEC 2020 FOR FIRE ALARM CONTROL. PROVIDE HASP LOCK FOR BREAKER.

PANEL LC2

VOLTAGE 120 / 208 — PHASE 3 WIRE 4 — BUS AMPS 400
PANEL LC2 — MAIN AMPS 400
LOCATION MECH/ELEC W112 — MOUNTING SURFACE — MAIN LUGS

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
SANCTUARY RECEPT.	600			20	1	1	A	2	1	20			400	CLASS FLR. BOX
SANCTUARY RECEPT.		600		20	1	3	B	4	1	20		1000		CLASS RECEPT.
SANCTUARY RECEPT.			400	20	1	5	C	6	1	20	400			CLASS FLR. BOX
SANCTUARY RECEPT.	400			20	1	7	A	8	1	20			1000	CLASS RECEPT.
SANCTUARY RECEPT.		600		20	1	9	B	10	1	20		400		CLASS FLR. BOX
SANCTUARY RECEPT.			400	20	1	11	C	12	1	20	1200			CLASS RECEPT.
TB	500			20	1	13	A	14	1	20			400	CLASS FLR. BOX
FELLOWSHIP RECEPT.		1000		20	1	15	B	16	1	20		1200		CLASS RECEPT.
FELLOWSHIP RECEPT.			600	20	1	17	C	18	1	20	800			STORAGE RECEPT.
FELLOWSHIP RECEPT.	600			20	1	19	A	20	1	20				SPARE
TIME CLOCK		500		20	1	21	B	22	1	20		500		SANCTUARY LIGHTS
EXTERIOR DOWNLIGHTS			100	20	1	23	C	24	1	20				SPARE
EXTERIOR SCONCES	120			20	1	25	A	26	1	20				SPARE
WALL PACKS		300		20	1	27	B	28	1	20				SPARE
WALL PACKS			240	20	1	29	C	30	1	20				SPARE
WALL PACKS	390			20	1	31	A	32	1	20				SPARE
SIGN		2500		20	1	33	B	34	1	20				SPARE
			2500	20	1	35	C	36	2					SPACE
SPARE				20	1	37	A	38						
SPARE				20	1	39	B	40	2					SPACE
SPARE				20	1	41	C	42						
SPACE					1	43	A	44	3	60			2985	PANEL LCP
SPACE					1	45	B	46				1400		
SPACE					1	47	C	48			765			
GP-1	1272			30	3	49	A	50	3	150			18000	PANEL LS
		1272				51	B	52				18000		
			1272			53	C	54			18000			
TOTALS	3882	6772	5512								21165	22500	22785	

VOLT AMPS — BUS A 26667 — BUS B 29272 — BUS C 26677 — TOTAL 82616

REMARKS: 20,000 AIC RATING MINIIMUM
SECTION 2 OF 2
54 POLE PANEL

PANEL LD

VOLTAGE 120 / 208 — PHASE 3 WIRE 4 — BUS AMPS 400
PANEL LD — MAIN AMPS 400
LOCATION MECH/ELEC W112 — MOUNTING SURFACE — MAIN LUGS

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
HP-1	2808			50	2	1	A	2	3	80			6624	PU-1
		2808				3	B	4				6624		
HP-2			2808	50	2	5	C	6			6624			
	2808					7	A	8	3	80			6624	PU-2
HP-3		2808		50	2	9	B	10				6624		
			2808			11	C	12			6624			
HP-4	2808			50	2	13	A	14	3	45			3072	PU-3
		2808				15	B	16				3072		
HP-5			2808	50	2	17	C	18			3072			
	2808					19	A	20	2	60			4293	AH-5
AH-1		4293		60	2	21	B	22				4293		
			4293			23	C	24	1	20				SPARE
AH-2	4293			60	2	25	A	26	2					SPACE
		4293				27	B	28						
AH-3			4293	60	2	29	C	30	2					SPACE
	4293					31	A	32						
AH-4		4293		60	2	33	B	34	2					SPACE
			4293			35	C	36						
TVSS				60	3	37	A	38	3					SPACE
						39	B	40						
						41	C	42						
TOTALS	19818	21303	21303								16320	20613	20613	

VOLT AMPS — BUS A 40431 — BUS B 41916 — BUS C 37623 — TOTAL 119970

REMARKS: 20,000 AIC RATING MINIIMUM

PANEL LS

VOLTAGE 120 / 208 — PHASE 3 WIRE 4 — BUS AMPS 150
PANEL LS — MAIN AMPS 150
LOCATION SUPPORT W108 — MOUNTING SURFACE — MAIN BREAKER

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
SPARE				20	1	1	A	2	1	20				SPARE
SPARE				20	1	3	B	4	1	20				SPARE
SPARE				20	1	5	C	6	1	20				SPARE
SPARE				20	1	7	A	8	1	20				SPARE
SPARE				20	1	9	B	10	1	20				SPARE
SPARE				20	1	11	C	12	1	20				SPARE
SPARE				20	1	13	A	14	1	20				SPARE
SPARE				20	1	15	B	16	1	20				SPARE
SPARE				20	1	17	C	18	1	20				SPARE
SPARE				20	1	19	A	20	1	20				SPARE
SPARE				20	1	21	B	22	1	20				SPARE
SPARE				20	1	23	C	24	1	20				SPARE
SPARE				20	1	25	A	26	2					SPACE
SPARE				20	1	27	B	28						
SPARE				20	1	29	C	30	2					SPACE
SPACE					1	31	A	32						
SPACE					1	33	B	34	2					SPACE
SPACE					1	35	C	36						
SPACE					1	37	A	38	3	60				TVSS
SPACE					1	39	B	40						
SPACE					1	41	C	42						
TOTALS	0	0	0								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 0 — TOTAL 0

REMARKS: 12,000 AIC RATING MINIIMUM
PANEL FOR A/V EQUIPMENT
PROVIDE ISOLATED GROUND BUS IN ADDITION TO EQUIP GROUND BUS

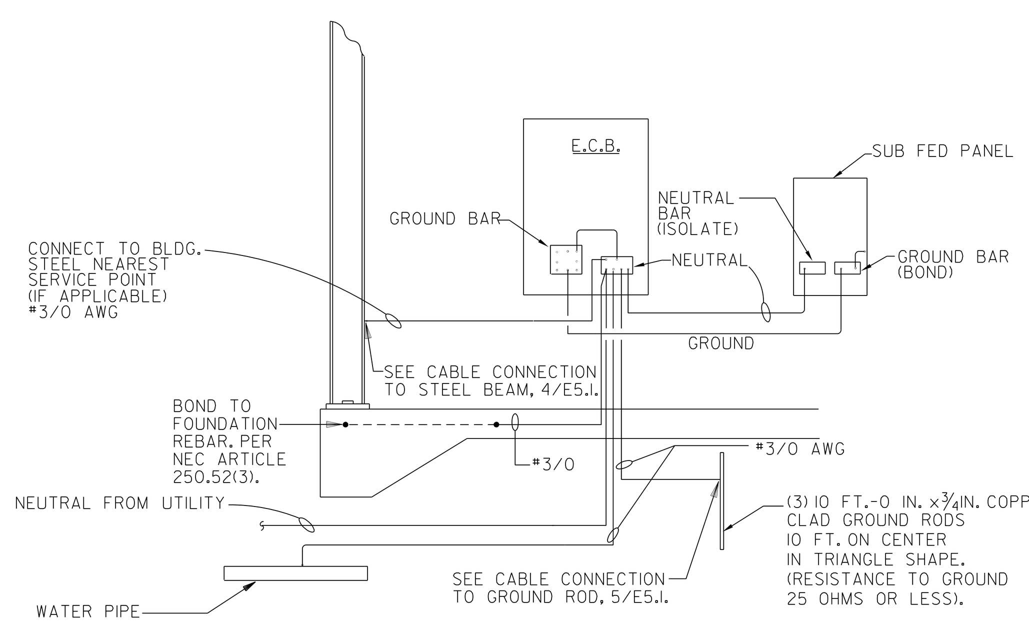
PANEL LCP

VOLTAGE 120 / 208 — PHASE 3 WIRE 4 — BUS AMPS 60
PANEL LCP — MAIN AMPS 60
LOCATION SUPPORT W108 — MOUNTING SURFACE — MAIN LUGS

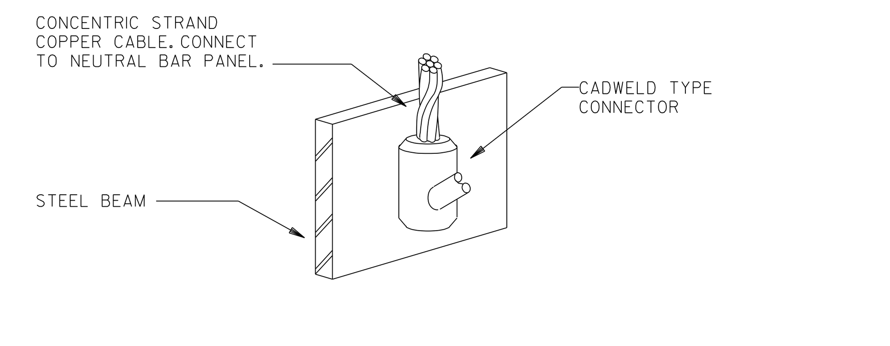
DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
SANCTUARY DOWNLTS.	1400			20	1	1	A	2	1	20			350	** PODIUM EMERG.
SANCTUARY SCONCES		360		20	1	3	B	4	1	20		600		** SANCTUARY EMERG.
SANCTUARY WALL WASH			600	20	1	5	C	6	1	20	165			NARROW FLOODS
PODIUM CYLINDERS	1015			20	1	7	A	8	1	20			220	FLOODS
SPARE				20	1	9	B	10	1	20		440		WIDE FLOODS
SPARE				20	1	11	C	12	1	20				SPARE
TOTALS	2415	360	600								165	1040	570	

VOLT AMPS — BUS A 2985 — BUS B 1400 — BUS C 765 — TOTAL 5150

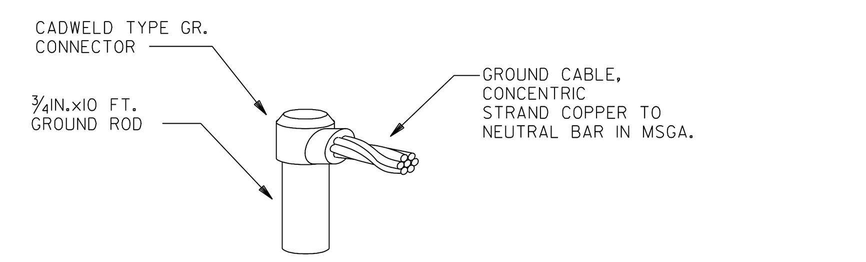
REMARKS: LIGHTING CONTROL RELAY PANEL
PROVIDE BREAKER AND SWITCHING RELAY FOR EACH POLE
** PROVIDE HASP LOCK FOR BREAKER



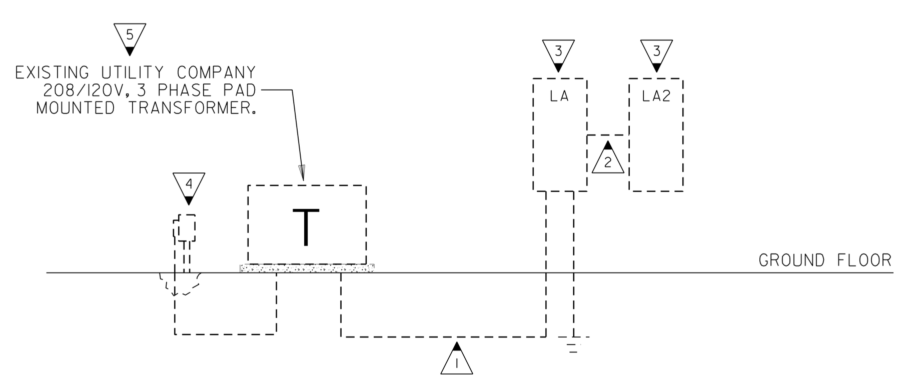
3 / E5.1 BUILDING GROUNDING
NOT TO SCALE



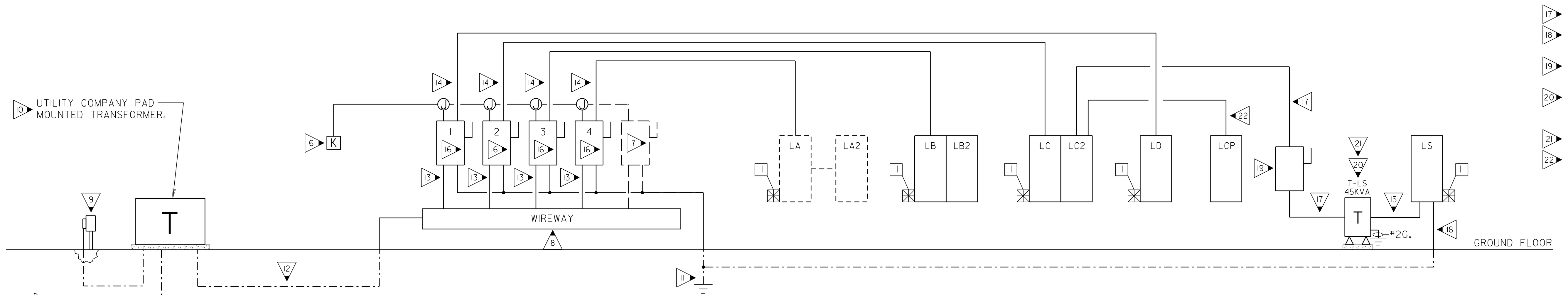
4 / E5.1 CABLE CONNECTION TO STEEL BEAM
NOT TO SCALE



5 / E5.1 CABLE CONNECTION TO GROUND ROD
NOT TO SCALE



1 / E5.1 EXISTING POWER RISER DIAGRAM
NOT TO SCALE



2 / E5.1 NEW POWER RISER DIAGRAM
NOT TO SCALE

T.V.S.S.

1 MAIN SERVICE PANELS, PROVIDE 5-#6 CONDUCTORS IN 1" C FROM 60A/3P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER. U.L. 1449 LISTED, 200,000 SURGE CURRENT RATING, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL.

KEYED NOTES: (THIS SHEET ONLY)

1. EXISTING CIRCUITRY TO BE DEMOLISHED.
2. EXISTING CIRCUITRY TO REMAIN.
3. EXISTING ELECTRICAL EQUIPMENT TO REMAIN THROUGHOUT BUILDING ADDITION.
4. EXISTING METER BASE TO BE REPLACED WITH NEW METER BASED UPSIZED FOR NEW SERVICE SHOWN.
5. EXISTING PAD MOUNTED TRANSFORMER TO BE UPSIZED AS NEEDED FOR NEW SERVICE SHOWN. COORDINATE WITH THE SERVING UTILITY COMPANY PRIOR TO ANY ELECTRICAL WORK.
6. SURFACE MOUNTED NEMA 3R KNOX REMOTE POWER BOX PRODUCT NUM. "MKT-KBSPEC-0169". CONNECT TO 208/120V, 3PH ENCLOSED CIRCUIT BREAKERS WITH SHUNT TRIP TO REMOTELY DISCONNECT POWER. ALLOW FOR PROVISIONS FOR PHASE 2 SERVICE TO INTERLOCK WITH KNOX BOX.
7. FUTURE PHASE 2 SERVICE ENTRANCE RATED SHUNT TRIP TYPE ENCLOSED CIRCUIT BREAKER.
8. WIREWAY SIZED PER NEC 2023. PROVIDE UTILITY CO. LOCKING PINS AS REQUIRED. PROVIDE POLARIS LUGS OF NUMBER AND SIZE OF LUGS SHOWN FOR CONDUCTORS AND TAPS REQUIRED. PROVIDE (1) ADDITIONAL POLARIS LUG AND TAP SIZED FOR A FUTURE PHASE 2 400A/3P ENCLOSED CIRCUIT BREAKER. SEE NOTE 7.
9. NEW UPSIZED METER BASE SUPPLIED BY POWER COMPANY AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PAY ALL COSTS ASSOCIATED FOR METER BASE AND NEW SERVICE SHOWN.
10. EXISTING TRANSFORMER TO BE UPSIZED AS NEEDED FOR NEW SERVICE SHOWN. COORDINATE WITH THE SERVING UTILITY COMPANY PRIOR TO ANY ELECTRICAL WORK.
11. SEE BUILDING GROUNDING DETAIL, 3/E5.1.
12. 5 SETS: 4#600MCM, 4 IN. C.
13. 4#600MCM, 4 IN. C.
14. 4#600MCM, #2/0G., 4 IN. C.
15. 3#2/0, #500MCM NEUTRAL, #2G., 2 1/2 IN. C.
16. PROVIDE NEW 400A/3P/3R S.E. RATED ENCLOSED SHUNT TRIP TYPE CIRCUIT BREAKER, 48,500 AIC MINIMUM. PROVIDE LABEL "SERVICE DISCONNECT X OF 4", WITH "X" REPLACED BY E.C.B. NUMBER INDICATED.
17. 3#2/0, #4G., 2 IN. C.
18. PROVIDE #2 ISOLATED GROUNDING CONDUCTOR BACK TO SERVICE ENTRANCE GROUNDING CONDUCTOR.
19. PROVIDE LABEL "T-LS PRIMARY DISCONNECT". PROVIDE 200A/3P FUSED DISCONNECT WITH 150A RATED FUSES.
20. 208V, 3PH TO 208/120V, 3 PH ISOLATION TRANSFORMER FOR ISOLATED GROUND PANEL "LS". PROVIDE #2 INSOLATED GROUNDING CONDUCTOR BACK TO SERVICE ENTRANCE GROUNDING CONDUCTOR.
21. SEE FLOOR MOUNTED TRANSFORMER DETAIL, 4/E5.2.
22. 4#6, #8G., 1 IN. C.

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ARCHITECT — STAMP INVALID UNLESS SIGNED

CONSULTANT — GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 23... JEFFREY H. McGEE — STAMP INVALID UNLESS SIGNED

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ELECTRICAL DETAILS & SCHEDULES

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway
Madison, Georgia 30650

JOB NO.: 02405
DRAWN BY: TW
CHECKED BY: JM
DESCRIPTION: ISSUE
DATE: 07.24.2025
DESCRIPTION:
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DESCRIPTION:
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REVISIONS:

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SHEET E5.1
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