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LOUDOUN COUNTY JUVENILE DETENTION CENTER  
42055 GOURLEY TRANSIT DRIVE  
LOUDOUN COUNTY, VIRGINIA

PROJECT NO:	DATE:
481000	JULY 15, 2020
REVISIONS:	
DATE:	DESCRIPTION:
11/24/20	ADDENDUM 5

PANELBOARD SCHEDULE LA1										LOCATION: MAIN ELECTRICAL			FED FROM: TL1A1		
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT	MOUNT: SURFACE PANEL ASSEMBLY RATED (KAIC): 22 KAIC				
1	20 A	1	RECEPTACLES OFFICE 115	0.9	1.1		RECEPTACLES OFFICE 114	1	20 A	2					
3	20 A	1	REC-COPIER 116		0.2	1.4	RECEPTACLES WORK ROOM	1	20 A	4					
5	20 A	1	RECEPTACLES OFFICE 113			0.9	RECEPTACLES OFFICE 112	1	20 A	8					
7	20 A	1	RECEPTACLES OFFICE 111	1.3	1.3		RECEPTACLES CONFERENCE 118	1	20 A	9					
9	20 A	1	RECEPTACLES ROOM 124, 122		1.4	0.9	RECEPTACLES MAIN	1	20 A	10					
11	20 A	1	RECEPTACLES STAFF LOUNGE			0.2	0.4	RECEPTACLES STAFF LOUNGE	1	20 A	12				
13	20 A	1	RECEPTACLES STAFF LOUNGE	1.4	1.3		RECEPTACLES JANITOR 119	1	20 A	14					
15	20 A	1	RECEPTACLES TOILET 132		0.9	0.7	RECEPTACLES OFFICE 134	1	20 A	16					
17	20 A	1	RECS - RM 139			0.5	0.9	RECEPTACLES	1	20 A	18				
19	20 A	1	RECEPTACLES CORRIDOR 110A	0.4	0.2		RECEPTACLES CORRIDOR 110A	1	20 A	20					
21	20 A	1	RECEPTACLES CORRIDOR 103		1.6	0.7	RECS - RM 117	1	20 A	22					
23	20 A	1	RECS - RM 187			0.7	0.9	RECEPTACLES	1	20 A	24				
25	20 A	1	*EWC- RM 107				RECEPTACLES SECURITY	1	20 A	26					
27	20 A	1	RECS - RM 145	0.8	1.3		RECEPTACLES MASTER	1	20 A	28					
29	20 A	1	RECEPTACLES MASTER		0.4	0.5	RECEPTACLES MASTER	1	20 A	30					
31	20 A	1	RECS - RM 151, 100	1.1	0.9		RECEPTACLES MASTER	1	20 A	32					
33	20 A	1	GAS DRYER - LAUNDRY 128		0.2	0.2	GAS DRYER - LAUNDRY 128	1	20 A	34					
35	20 A	1	RECEPTACLES LAUNDRY 128			0.4	1.1	** HAND DRYER MEN 122	1	20 A	36				
37	20 A	1	RECS - RM 109	0.7	0.5		FIRE ALARM CONTROL PANEL	1	20 A	38					
39	20 A	1	** HAND DRYER TOILET 108A		1.1	1.1	** HAND DRYER TOILET 132	1	20 A	40					
41	20 A	1	** HAND DRYER TOILET 108B			1.1	1.1	** HAND DRYER WOMEN 123	1	20 A	42				
43	20 A	1	DETECTOR - RM LOBBY 106	0.5	0.2		SMOKE CONTROL PANEL	1	20 A	44					
45	20 A	1	RECS - RM 100, 102, 146, 144		1.3	1.1	** HAND DRYER - RM 144	1	20 A	46					
47	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	48				
49	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	50					
51	20 A	1	SPARE		0.0	0.0	SPARE	1	20 A	52					
53	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	54				
55	20 A	1	SPARE	0.0	1.1		RECEPTACLES - ROOF	1	20 A	56					
57	20 A	1	EXTERIOR SECURITY CAMERAS		1.5	0.2	** RECEPTACLES VENDING 120	1	20 A	58					
59	20 A	1	REC-TVS MASTER CONTROL 145			0.5	1.4	RECEPTACLES - RMS 121A & 121B	1	20 A	60				
61	20 A	1	EXTERIOR SECURITY CAMERA	0.5	0.7		RECEPTACLES	1	20 A	62					
63	20 A	1	ELECTRIC LOCKS		0.6	0.7	ELECTRIC LOCKS	1	20 A	64					
65	20 A	1	ELEC LOCKS			0.5	0.2	ELEC LOCKS	1	20 A	66				
67	20 A	1	SHADE CONTROL PANEL - 145	0.2	0.0		SPARE	1	20 A	68					
69	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	70				
71	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	72				
73	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	74					
75	--	--	SPACE ONLY		0.0	0.0	SPACE ONLY	--	--	76					
77	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--	78					
79	--	--	SPACE ONLY	0.0	0.0		SPACE ONLY	--	--	80					
81	--	--	SPACE ONLY		0.0	0.0	SPACE ONLY	--	--	82					
83	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--	84					
				16 kVA	17 kVA	13 kVA									
				139 A	142 A	112 A									

PANELBOARD SCHEDULE LK										LOCATION: KITCHEN 131			FED FROM: TLK		
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT	MOUNT: RECESSED PANEL ASSEMBLY RATED (KAIC): 22 KAIC				
1				5.5	2.5		*HOT FOOD WELLUNIT	1	25 A	2					
3	60 A	3	DISH WASHER		5.5	1.1	RECS - KITCHEN 131	1	20 A	4					
5				0.5	0.0		* RECEPTACLE - FOOD	1	20 A	6					
7	20 A	1	* RECEPTACLE MILK COOLER		1.3	0.0	SPARE	1	20 A	8					
9	20 A	1	ICE MAKER			0.0	0.0	SPARE	1	20 A	10				
11	20 A	1	SPARE	0.0	0.6		* RECEPTACLE - FOOD SLICER	1	20 A	12					
13	--	--	SPACE ONLY				AIR CURTAIN	1	20 A	14					
15	--	--	SPACE ONLY				RECEPTACLES KITCHEN 131	1	20 A	16					
17	--	--	SPACE ONLY				KITCHEN HOOD	1	20 A	18					
19	--	--	SPACE ONLY				RECEPTACLES KITCHEN 131	1	20 A	20					
21	20 A	3	KITCHEN KITCHEN 131	0.8	0.4	0.8	1.8	KITCHEN HOOD	1	20 A	22				
23						0.8	0.5	KITCHEN FREEZER	1	20 A	24				
25								REFRIG COOLER LTG	1	20 A	26				
27	20 A	2	KITCHEN COOLER	0.3	0.6	0.3	0.7	COOLER OUTDOOR UNIT	3	20 A	28				
29						2.0	0.7	COOLER OUTDOOR UNIT	3	20 A	30				
31								RECS - KITCHEN 131	1	20 A	32				
33	25 A	3	FREEZER CONDENSER UNIT	2.0	0.7	2.0	0.4	RECS - KITCHEN 131	1	20 A	34				
35	20 A	1	REC - KITCHEN 131		0.2	0.0	0.2	SPARE	1	20 A	36				
37	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	38					
39	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	40				
41	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	42				
43				6.6	0.0	6.6	0.0	SPACE ONLY	--	--	44				
45	100 A	3	UTILITY CHASE - KITCHEN 131			6.6	0.0	SPACE ONLY	--	--	46				
47	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--	--	48				
49	--	--	SPACE ONLY	0.0	0.0		0.0	SPACE ONLY	--	--	50				
51	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--	--	52				
53	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--	--	54				
				21 kVA	21 kVA	17 kVA									
				177 A	180 A	142 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	6460 VA	100.00%	6460 VA	Total Conn. Load: 58.7 kVA
AC/HEAT PUMP	0 VA	0.00%	0 VA	Total Est. Demand: 54.4 kVA
ELECTRIC HEAT	0 VA	0.00%	0 VA	Total Conn. Current: 163 A
KITCHEN	51624 VA	100.00%	51624 VA	Total Est. Demand... 163 A
MISCELLANEOUS	0 VA	0.00%	0 VA	

PANELBOARD SCHEDULE LA2										LOCATION: ELECTRICAL 166			FED FROM: TL2		
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT	MOUNT: SURFACE PANEL ASSEMBLY RATED (KAIC): 65 KAIC				
1	20 A	1	RECEPTACLES	1.3	0.8		*EWC- RM 201	1	20 A	2					
3	20 A	1	RECEPTACLES		0.5	0.9	RECEPTACLES	1	20 A	4					
5	20 A	1	RECEPTACLES STOR 205			0.2	0.5	RECEPTACLES DAYROOM 300	1	20 A	6				
7	20 A	1	RECEPTACLES	0.4	0.9		RECS - RM 301	1	20 A	8					
9	20 A	1	RECEPTACLES VEHICLE		1.4	1.1	RECS - RM 164, 165	1	20 A	10					
11	20 A	1	RECEPTACLES			0.9	0.6	AHU2 DDC	1	20 A	12				
13	20 A	1	RECS - RM 140, 301	1.1	1.3		RECS - RM 140	1	20 A	14					
15	20 A	1	RECS - RM 170, 169, 168		1.4	1.1	RECS - RM 154, 174	1	20 A	16					
17	20 A	1	COILING DOOR - SALLYPORT			1.2	0.5	SECURITY PEDESTAL	1	20 A	18				
19	20 A	1	COILING DOOR - SALLYPORT	1.2	1.0		EXTERIOR SECURITY CAMERAS	1	20 A	20					
21					1.5	1.0	EXTERIOR SECURITY CAMERAS	1	20 A	22					
23	30 A	2	DRYER			1.5	0.5	EXTERIOR SECURITY CAMERAS	1	20 A	24				
25				1.5	0.2			UV LIGHT - AHU-1	1	20 A	26				
27	30 A	2	DRYER		1.5	0.2		UV LTG - AHU-2	1	20 A	28				
29	20 A	1	RECS - RM 159			0.5	1.1	RECS - RM 173	1	20 A	30				
31	20 A	1	RECS - RM 173	1.1	0.9			RECS - RM 173	1	20 A	32				
33	20 A	1	*EWC- RM 300		0.2	0.2		REC - RM 300	1	20 A	34				
35	20 A	1	REC - RM 200			0.2	0.7	RECS - RM 187	1	20 A	36				
37	20 A	1	MOTORIZED DAMPERS	0.9	0.4			RECS - MECH RM EAST	1	20 A	38				
39	20 A	1	TOILET CONTROLS		0.7	0.0		SPARE	1	20 A	40				
41	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	42				
43	20 A	1	SPARE	0.0	0.0		0.0	SPARE	1	20 A	44				
45	--	--	SPACE ONLY			0.0	0.0	SPARE	1	20 A	46				
47	--	--	SPACE ONLY			0.0	0.0	SPARE	1	20 A	48				
49	--	--	SPACE ONLY	0.0	0.0		0.0	SPARE	1	20 A	50				
51	--	--	SPACE ONLY			0.0	0.0	SPARE	1	20 A	52				
53	--	--	SPACE ONLY			0.0	0.0	SPARE	1	20 A	54				
55	--	--	SPACE ONLY	0.0	0.0		0.0	SPARE	1	20 A	56				
57	--	--	SPACE ONLY			0.0	0.0	SPARE	1	20 A	58				
59	--	--	SPACE ONLY			0.0	0.0	SPARE	1	20 A	60				
61	--	--	SPACE ONLY	0.0	1.7		0.0	EUH-5	2	20 A	62				
63	--	--	SPACE ONLY			0.0	1.7	EUH-6	2	20 A	64				
65	--	--	SPACE ONLY			0.0	1.7	EUH-7	2	20 A	66				
67	20 A	1	F-9	0.1	1.7		0.1	EUH-8	2	15 A	68				
69	20 A	1	F-12			0.1	1.0	EUH-9	2	15 A	70				
71	20 A	1	F-16			0.7	1.0	EUH-10	2	15 A	72				
73	20 A	1	F-19	0.1	1.0		0.3	EUH-11	2	15 A	74				
75	20 A	1	UH-2			0.6	5.0	EUH-12	2	70 A	76				
77	20 A	1	UH-3			0.6	5.0	EUH-13	2	70 A	78				
79	20 A	2	EXTRACTOR WASHER - 128...	0.6	5.0		0.6	EUH-14	2	70 A	80				
81	20 A	2	EXTRACTOR WASHER - 128...	0.6	5.0		0.6	EUH-14	2	70 A	82				
83	--	--	SPACE ONLY			0.0	0.0	EUH-14	2	70 A	84				
				23 kVA	21 kVA	23 kVA									
				192 A	178 A	193 A									

PANELBOARD SCHEDULE LM1										LOCATION: MAIN ELECTRICAL			FED FROM: TLM1		
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT	MOUNT: SURFACE PANEL ASSEMBLY RATED (KAIC): 22 KAIC				
1				2.2	1.4		DSS-143B	2	20 A	2					
3	30 A	3	AIR COMPRESSOR NO. 1			2.2	1.4	DSS-187B	2	20 A	4				
5				2.2	1.4			DSS-517B	2	20 A	6				
7				2.2	1.4			F-4	1	20 A	8				
9	30 A	3	AIR COMPRESSOR NO. 2			2.2	1.4	F-5	1	20 A	10				
11				0.6	0.1	1.7	0.1	F-6	1	20 A	12</				