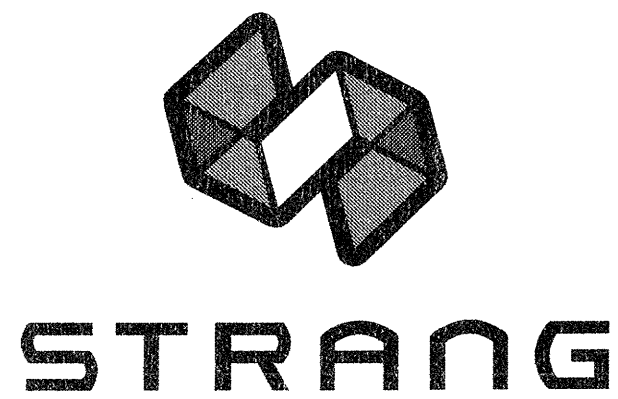




ARCHITECTURAL
ENGINEERING
INTERIOR DESIGN

STRANG INC.
6411 MINERAL POINT ROAD
MADISON, WI 53705-4396
T/ 608 276 9200
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DRAWING SET OWNER REVIEW
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STRANG, INC.
FILE NAME 2011009-E501.DWG
REVISIONS

DRAWN KK
CHECKED AS
DATE 03-09-12
PROJECT NO. 2011009
PROJECT TITLE

CITY OF MADISON
FIRE STATION #2
ADDITION AND
REMODELING

421 GRAND CANYON DRIVE
MADISON, WISCONSIN

SHEET TITLE

ELECTRICAL
PANELBOARDS

SHEET NO.

E501

Panelboard:	PNL MD-1	Panel Source:	Utility
Bus Ampacity	400A	Volts	120/208
Branch Brkr Space	42	Phase	3
MLO Amps		Wires	4
MCB A/P	400A	Surface	Yes
Pal Mfr		Recessed	
Pal Type		AIC	22000
Pal Height			
Pal Width		Pal MCA	174 A
Pal Depth			

Load to be Fed	Ckt No	Brkr A/P	A	B	C	Left Phases	A	B	C	Right Phases	Brkr A/P	Ckt No	Load to be Fed
EF-1	1	25/1	1,176				288				15/3	2	MAU-1
EF-1	3	35/1		1,656				288				4	
SPARE	5								288			6	
SPARE	7	15/3					636				15/3	8	MAU-2
SPARE	9							636				10	
SPARE	11								636			12	
P-1	13	15/3	288				204				15/3	14	SRV-1
	15			288				204				16	
P-2	17				288				204			18	
	19	15/3	288				5,784				60/3	20	ACCU-1
	21					288				5,284		22	
	23					288				5,284		24	
Existing (Verify)	25	20/1	1,000				1,060				20/1	26	Existing (Verify)
Existing (Verify)	27	20/1		1,000				1,000			20/1	28	Existing (Verify)
Existing (Verify)	29	20/1			1,000				1,000		20/1	30	Existing (Verify)
Existing (Verify)	31	20/1	1,000				1,000				20/1	32	Existing (Verify)
Existing (Verify)	33	20/1		1,000				18,288			200/3	34	Panel A-1
Existing (Verify)	35	20/1			1,000				18,288			36	
Existing (Verify)	37	20/1	1,000				18,288					38	
Existing (Verify)	39	20/1		1,000							20/1	40	Spare
Existing (Verify)	41	20/1			1,000						20/1	42	Spare

Panelboard:	PNL MD-2	Panel Source:	MD-1
Bus Ampacity	400A	Volts	120/208
Branch Brkr Space	42	Phase	3
MLO Amps	400A	Wires	4
MCB A/P		Surface	
Pal Mfr		Recessed	
Pal Type		AIC	22000
Pal Height			
Pal Width		Pal MCA	41 A
Pal Depth			

Load to be Fed	Ckt No	Brkr A/P	A	B	C	Left Phases	A	B	C	Right Phases	Brkr A/P	Ckt No	Load to be Fed
Existing	1	20/1	1,000						1,700		35/3	2	AIH-1
Existing	3	20/1		1,000						1,700		4	
Existing	5	20/1			1,000							6	
Existing	7	20/1	1,000						720			8	Receipt Roof
Existing	9	20/1		1,000							20/1	10	Spare
Existing	11	20/1			1,000						20/1	12	Spare
Existing	13	20/1	1,000								20/1	14	Spare
Existing	15	20/1		1,000							20/1	16	Spare
Existing	17	20/1			1,000						20/1	18	Spare
Spare	19	20/1									20/1	20	Spare
Spare	21	20/1									20/1	22	Spare
Spare	23	20/1									20/1	24	Spare
Spare	25	20/1									20/1	26	Spare
Spare	27	20/1									20/1	28	Spare
Spare	29	20/1									20/1	30	Spare
Spare	31	20/1									20/1	32	Spare
Spare	33	20/1									20/1	34	Spare
Spare	35	20/1									20/1	36	Spare
Spare	37	20/1									20/1	38	Spare
Spare	39	20/1									20/1	40	Spare
Spare	41	20/1									20/1	42	Spare

Panelboard:	PNL A-1 (Tub-1)	Panel Source:	MD-1
Bus Ampacity	225A	Volts	120/208
Branch Brkr Space	42	Phase	3
MLO Amps	225A	Wires	4
MCB A/P		Surface	Yes
Pal Mfr		Recessed	
Pal Type		AIC	22000
Pal Height			
Pal Width		Pal MCA	88 A
Pal Depth			

Load to be Fed	Ckt No	Brkr A/P	A	B	C	Left Phases	A	B	C	Right Phases	Brkr A/P	Ckt No	Load to be Fed
Basement Lvs	1	20/1	1,803						1,000		20/1	2	Existing (Verify)
Garage Lvs	3	20/1		1,836						1,000	20/1	4	Existing (Verify)
Corridor/Stair Lvs	5	20/1			922					1,000	20/1	6	Existing (Verify)
Bedrooms/Watch Rm Lvs	7	20/1	967						1,000		20/1	8	Existing (Verify)
CUH-1, CEF-2, Rept	9	20/1		1,356						1,000	20/1	10	Existing (Verify)
UH-1	11	25/1			1,176					1,000	20/1	12	Existing (Verify)
UH-2	13	25/1	1,176								20/1	14	Existing (Verify)
UH-2	15	20/1		312						1,000	20/1	16	Existing (Verify)
CEP-2	17	20/1			300					1,000	20/1	18	Existing (Verify)
HWB-1,2	19	20/1	288						1,000		20/1	20	Existing (Verify)
Data Rack	21	20/1			500					1,000	20/1	22	Existing (Verify)
Alerting System	23	20/1			500					1,000	20/1	24	Existing (Verify)
Alerting System	25	20/1	500						1,500		20/1	26	Washer
Receipt Rm 106	27	20/1		540						2,500	30/2	28	Dryer
Receipt Rm 106	29	20/1			540							30	
General Rept	31	20/1	900						1,000		20/1	32	HVAC Temp Contrls
Bath & Mech Rm Rept	33	20/1		540						680	20/1	34	Water Softener
Receipt Rm 116	35	20/1			360					1,000	20/1	36	HVAC Temp Contrls
Receipt Rm 116,117	37	20/1	720								20/1	38	Spare
Receipt Rm 117	39	20/1		720							20/1	40	Spare
Spare	41	20/1			1,000						20/1	42	Spare

Panelboard:	PNL A-2 (Tub-2)	Panel Source:	PNL A-1
Bus Ampacity	225A	Volts	120/208
Branch Brkr Space	42	Phase	3
MLO Amps	225A	Wires	4
MCB A/P		Surface	Yes
Pal Mfr		Recessed	
Pal Type		AIC	22000
Pal Height			
Pal Width		Pal MCA	24 A
Pal Depth			

Load to be Fed	Ckt No	Brkr A/P	A	B	C	Left Phases	A	B	C	Right Phases	Brkr A/P	Ckt No	Load to be Fed
Refrigerator	1	20/1	1,200						360		20/1	2	Kitchen Recep
Refrigerator	3	20/1		1,200						360	20/1	4	Kitchen Recep
Disposal	5	35/1			1,656					360	20/1	6	Kitchen Recep
Kitchen Recep	7	20/1	180						360		20/1	8	Kitchen Recep
Range	9	20/1		360						360	20/1	10	Kitchen Recep
Food Lvs	11	20/1			200					360	20/1	12	Kitchen Recep
Door System	13	20/1	360						500		20/1	14	Microwave
Door System	15	20/1		360							20/1	16	Spare
Receipt Rm B1	17	20/1			540						20/1	18	Spare
Paint Receipts	19	20/1	360								20/1	20	Spare
Spare	21	20/1									20/1	22	Spare
Spare	23	20/1									20/1	24	Spare
Spare	25	20/1									20/1	26	Spare
Spare	27	20/1									20/1	28	Spare
Spare	29	20/1									20/1	30	Spare
Spare	31										20/1	32	Spare
Spare	33										20/1	34	Spare
Spare	35										20/1	36	Spare
Spare	37										20/1	38	Spare
Spare	39										20/1	40	Spare
Spare	41										20/1	42	Spare