

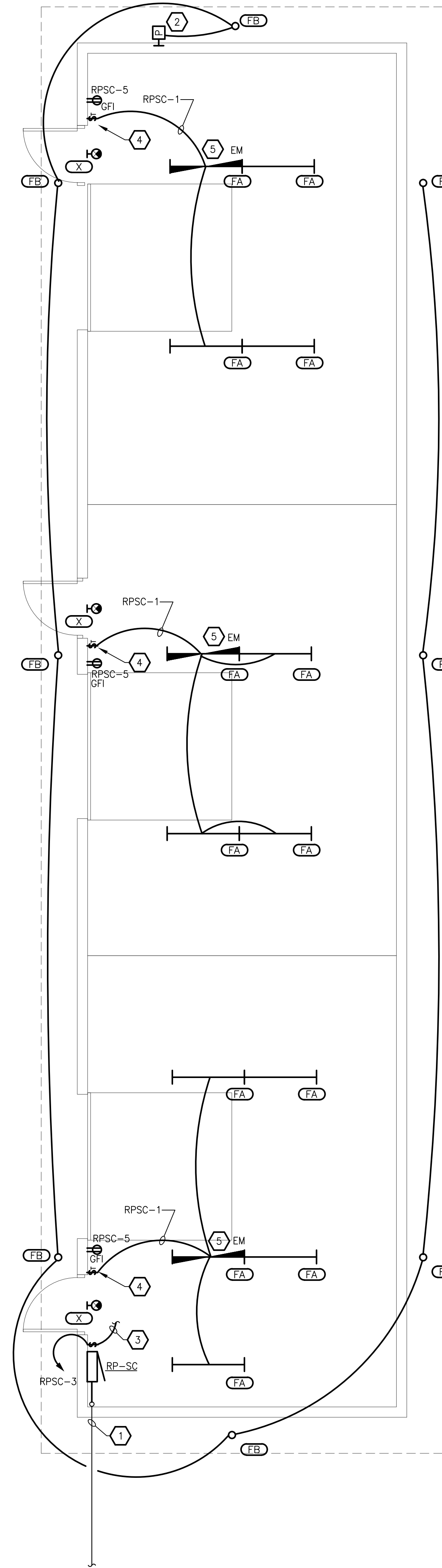
ELECTRICAL GENERAL NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
- SEE LUMINAIRE SCHEDULE ON ELECTRICAL GENERAL INFORMATION SHEET.
- EXIT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE UNCONTROLLED AND TIED AHEAD OF LOCAL AREA LIGHTING SWITCH, UNLESS CIRCUITED OTHERWISE.
- WHERE MORE THAN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
- ALL ELECTRICAL DEVICES SHOWN ON THIS PLAN SHALL BE NEW UNLESS OTHERWISE NOTED.
- ANY 120 VOLT BRANCH CIRCUIT FEEDER LONGER THAN 75'-0" TO LAST DEVICE SHALL BE SIZED TO THE NEXT LARGER STANDARD AWG SIZE, E.C. SHALL FIELD VERIFY ALL LENGTHS OF FEEDERS.
- ALL RECEPTACLES SHALL BE 20A. RATED.
- ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE.
- ALL RECEPTACLES WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE GFCI TYPE RECEPTACLE.
- REFER TO ARCHITECTURAL FLOOR PLAN AND ELEVATIONS FOR EXACT LOCATION OF DEVICES.
- ALL JUNCTION BOXES SERVING BRANCH CIRCUIT WIRING SHALL BE LABELED WITH CIRCUITS SERVED.
- ALL 120 VOLT CIRCUITS SHALL UTILIZE A SEPARATE NEUTRAL.
- ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND WIRE.
- ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL EQUIPMENT MOUNTED ON THE FLOOR SHALL BE MOUNTED ON A 4" CONCRETE HOUSE KEEPING PAD.
- ALL BRANCH CIRCUIT WIRING SHALL BE 2#12, 1#12GND IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.

KEYED NOTES

- EXISTING 1" EMPTY FROM EXISTING PANEL RPSC UNDER BLEACHERS. EXTEND AS NECESSARY TO NEW PANEL RPSC. PROVIDE 3 #6 & 1 #8G FROM NEW 60A, 3P BREAKER IN EXISTING PANEL RPSC TO FEED NEW PANEL RPSC. SEE PANEL SCHEDULE, THIS SHEET, FOR MORE INFORMATION.
- PHOTOCELL FOR CONTROL OF EXTERIOR LIGHTING CIRCUIT.
- TO PHOTOCELL ON NORTH WALL OF BUILDING. CONNECT SWITCH AHEAD OF PHOTOCELL FOR "OVER-RIDE" "OFF" FUNCTION.
- PROVIDE DIGITAL TIME SWITCH FOR CONTROL OF INTERIOR LIGHTING. WATTSTOPPER MODEL TS-400.
- PROVIDE 1200 LUMEN COLD WEATHER EMERGENCY BATTERY BALLAST ON FIXTURES DESIGNATED "EM". CONNECT BATTERY BALLAST AHEAD OF LOCAL AREA SWITCHING. BODINE B50 "COLD PACK".

FEEDER (AMPS)	COND. SIZE	COPPER FEEDER AND CONDUIT SIZES	
		3 WIRE WITH GROUND	4 WIRE WITH GROUND
>20	12	1/2" C, 3#12 & 1#12 GRD.	1/2" C, 4#12 & 1#12 GRD.
>30	10	3/4" C, 3#10 & 1#10 GRD.	3/4" C, 4#10 & 1#10 GRD.
>40	8	1/2" C, 3#8 & 1#10 GRD.	1/2" C, 4#8 & 1#10 GRD.
>50	8	1/2" C, 3#8 & 1#10 GRD.	1/2" C, 4#8 & 1#10 GRD.
>60	6	1" C, 3#6 & 1#10 GRD.	1" C, 4#6 & 1#10 GRD.
>70	4	1 1/4" C, 3#4 & 1#8 GRD.	1 1/4" C, 4#4 & 1#8 GRD.
>80	4	1 1/4" C, 3#4 & 1#8 GRD.	1 1/4" C, 4#4 & 1#8 GRD.
>90	3	1 1/4" C, 3#3 & 1#8 GRD.	1 1/4" C, 4#3 & 1#8 GRD.
>100	3	1 1/4" C, 3#3 & 1#8 GRD.	1 1/4" C, 4#3 & 1#8 GRD.
>125	1	1 1/2" C, 3#1 & 1#6 GRD.	1 1/2" C, 4#1 & 1#6 GRD.
>150	1/0	1 1/2" C, 3#1/0 & 1#6 GRD.	1 1/2" C, 4#1/0 & 1#6 GRD.
>175	2/0	1 1/2" C, 3#2/0 & 1#6 GRD.	1 1/2" C, 4#2/0 & 1#6 GRD.
>200	3/0	2" C, 3#3/0 & 1#6 GRD.	2" C, 4#3/0 & 1#6 GRD.
>225	4/0	2" C, 3#4/0 & 1#4 GRD.	2" C, 4#4/0 & 1#4 GRD.
>250	1-250	2 1/2" C, 3#250 & 1#4 GRD.	2 1/2" C, 4#250 & 1#4 GRD.
>300	1-350	2 1/2" C, 3#350 & 1#4 GRD.	2 1/2" C, 4#350 & 1#4 GRD.
>400	1-500	3" C, 3#500 & 1#3 GRD.	3" C, 4#500 & 1#3 GRD.
>500	2-250	(2) 2 1/2" C, 3#250 & 1#2 GRD.	(2) 3" C, 4#250 & 1#2 GRD.
>600	2-500	(2) 4" C, 3#500 & 1#1 GRD.	(2) 4" C, 4#500 & 1#1 GRD.
>800	2-600	(2) 4" C, 3#600 & 1#1/0 GRD.	(2) 4" C, 4#600 & 1#1/0 GRD.
>1000	3-500	(3) 3" C, 3#500 & 1#2/0 GRD.	(3) 3 1/2" C, 4#500 & 1#2/0 GRD.
>1600	4-600	(4) 3" C, 3#600 & 1#4/0 GRD.	(4) 3" C, 4#600 & 1#4/0 GRD.
>2000	6-500	(6) 4" C, 3#500 & 1#250 GRD.	(6) 4" C, 4#500 & 1#250 GRD.
>2500	6-600	(6) 4" C, 3#600 & 1#2/0 GRD.	(6) 4" C, 4#600 & 1#2/0 GRD.

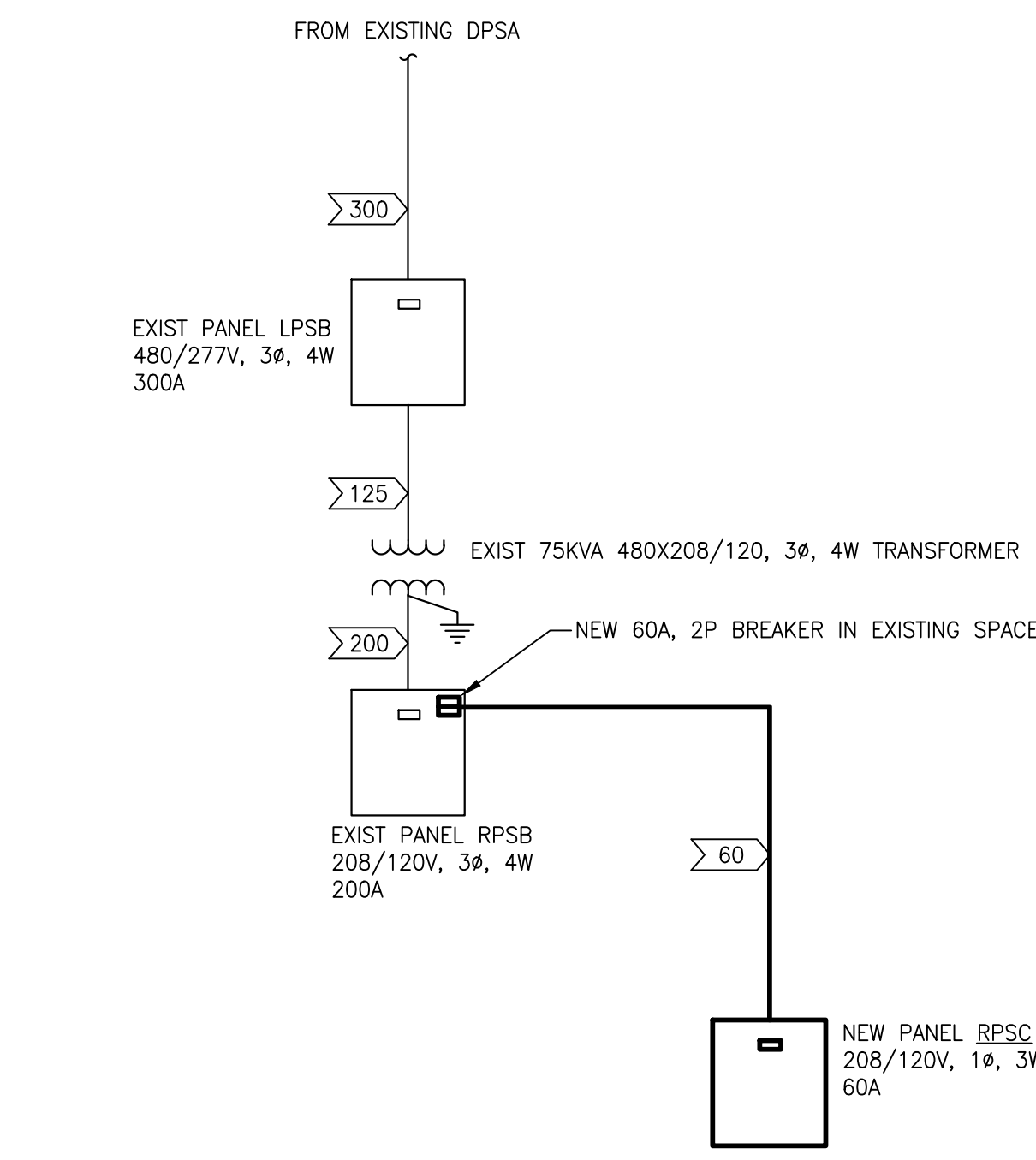


Panel Designation:	<b>RPSCB</b>	Main:	200A BREAKER	P-F Voltage:	208								
Panel Location:	SECONDARY SITE SERVICE RACK	Bussing:	225A	P-N Voltage:	120								
Feed From:	LPSB	Ground Bus:	STANDARD	Phase:	3								
Feeder Size:	200A	Mounting:	SURFACE	Wire:	4								
Neutral: 100%      Min SC Interrupting Rating: SEE SPECIFICATIONS													
Remarks	Light Load	Recept Load	Cont Load	non-C Load	OC Prd	OC Prd	OC Prd	non-C Load	Cont Load	Recept Load	Light Load	Remarks	
SCOREBOARD	1920				20	1	X	2	20			1200	FUTURE FOOTBALL FIELD STOR. BLDG. LTG.
SPARE					20	3	X	4	20			800	FUTURE FOOTBALL FIELD STOR. BLDG. RECEPT.
SPARE					20	5	X	6	20				SPARE
SPARE					20	7	X	8	20				SPARE
SPARE					20	9	X	10	20				SPARE
SPARE					20	11	X	12	20				SPARE
SPARE					13	X	14						SPARE
SPARE					15	X	16						SPARE
SPARE					17	X	18						SPARE
SPARE					19	X	20						SPARE
SPARE					21	X	22						SPARE
SPARE					23	X	24	60	487.5				EXISTING PRESS BOX
SPARE					25	X	26		487.5				EXISTING CONCESSIONS BUILDING
SPARE					27	X	28		9000				
STORAGE BUILDING PANEL RPSC	374	540			60	29	X	30	100				
Connected Load													
	DA	DB	DC	Total	Factor	DA	DB	DC	Total				
Lighting or Continuous Load (Volt-Amps)	3120	574	192	3888	1.00	3120	574	192	3888				
180VA Receptacle Load (Volt-Amps)	0	1340	0	1340	1.00 (1#10kVA)	0	1340	0	1340	Receptacle Demand Factor per Article 220.44 of the National Electrical Code.			
		Amount over 10kVA	0		0.50 (1-10kVA)	0	0	0	0				
Continuous Load (Volt-Amps)	487.5	9000	1387.5	27750		487.5	9000	1387.5	27750				
Non-Continuous Load (Volt-Amps)	0	0	0	0		0	0	0	0				
Total Load (kVA)	8.00	10.92	14.07	32.98	125% of Light/Cont and Recept (<10kVA) load plus other load	8.00	10.92	14.07	32.98				
Total Ampacity (Amps)	66.6	90.9	117.1	91.5	per NEC Article 215.2	66.6	90.9	117.1	91.5				
Minimum Feeder Sizing (Amps)	73.1	94.9	117.5	95.2	per NEC Article 215.2	73.1	94.9	117.5	95.2				

PANEL NAME: RP-SC		LOCATION: STORAGE BUILDING		MAIN: 60A BREAKER		BUSSING: 100A		L-L VOLTAGE: 208						
SOURCE: RP-SB		FEEDER SIZE: 3 #6		GROUND BUS: STANDARD		MOUNTING: SURFACE		L-N VOLTAGE: 120						
NEUTRAL: 100%		MIN SC INTERRUPT RATING: 100A		PHASE: 1		WIRE: 3		PHASE: 3						
LOAD DESCRIPTION	LIGHTING LOAD	RECEPTACLE LOAD	CONTINUOUS LOAD	NON-CONTINUOUS LOAD	OC PD	CKT	L1	L2	OC PD	NON-CONTINUOUS LOAD	CONTINUOUS LOAD	RECEPTACLE LOAD	LIGHTING LOAD	LOAD DESCRIPTION
DORMERS BLDG LIGHTING	832					20	1	2	20					SPARE
EXTERIOR LIGHTING	192					20	3	4	20					SPARE
RECEPTACLES		540				20	5	6						SPARE
SPACE						7		8						SPARE
SPACE						9		10						SPARE
SPACE						11		12						SPARE

LOAD TYPE	CONNECTED LOAD			DEMAND FACTOR			DEMAND FACTOR		
	L1	L2	TOTAL	L1	L2	TOTAL	L1	L2	TOTAL
LIGHTING LOAD (VA)	832	192	1024	1.00	832	192	1024		
RECEPTACLE LOAD (VA)	540		540	1.00 (PER 10KVA)	540	0	540		
			Amount over 10kVA			0	0	0	0
CONTINUOUS LOAD (VA)	0			1.00	0	0	0	0	0
NON-CONTINUOUS (VA)	0			0.65	0	0	0	0	0
TOTAL LOAD (kVA)	1.37	0.19	1.56	125% OF LIGHT/CONT AND RECEPT (<10KVA) LOAD PLUS OTHER LOAD	1.37	0.19	1.56		
TOTAL AMPACITY (A)	11.4	1.8	7.5	PER NEC ARTICLE 215.2	11.4	1.8	7.5		
MINIMUM FEEDER SIZE (A)	14.3	2.0	9.4		14.3	2.0	9.4		



STORAGE BUILDING ELECTRICAL PLAN  
SCALE: 1/4" = 1'-0"

PARTIAL ONE LINE DIAGRAM

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed ARCHITECT under the laws of the State of Reg State

Registration Number	Arch Name	Arch Num	Date	Issue Date

Description	Revisions	Date	Num

Comm: 134014  
Date: May 27, 2013  
Drawn:  
Check:

STORAGE BUILDING  
ELECTRICAL PLAN,  
SCHEDULES &  
ONE-LINE DIAGRAM