

Note: Load Schedule for the Remote Parking Area to be installed with a new Power Feeder / Supply

LOAD SCHEDULE

Panel No.	P	AT	AE	TAIC	LOAD DESCRIPTION	VA	VOLT	AMP	AB	BC	CA	SIZE OF WIRE	CONDUIT
1	2	20	50	10	4 Apron Floodlights - Taxiway Delta, Bravo and Alpha	2000	220	9.09	9.09			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
2	2	20	50	10	4 Apron Floodlights - Taxiway Delta	2000	220	9.09	9.09			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
3	2	20	50	10	4 Apron Floodlights - Taxiway Delta	2000	220	9.09	9.09			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
4	2	20	50	10	4 Apron Floodlights - Taxiway Delta	2000	220	9.09	9.09			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
5	2	20	50	10	4 Apron Floodlights - Taxiway Delta	2000	220	9.09	9.09			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
6	2	20	50	10	4 Apron Floodlights - Taxiway Delta	2000	220	9.09	9.09			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
7	2	20	50	10	4 Apron Floodlights - Taxiway Bravo	2000	220	9.09	9.09			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
8	2	20	50	10	4 Apron Floodlights - Taxiway Alpha	2000	220	9.09	9.09			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
9	2	20	50	10	4 Apron Floodlights - Taxiway Alpha	2000	220	9.09	9.09			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
10	2	20	50	10	4 Apron Floodlights - Taxiway Alpha	2000	220	9.09	9.09			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
11	2	20	50	10	4 Apron Floodlights - Taxiway Alpha	2000	220	9.09	9.09			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
Total Connected Load IFL						18000		81.82	27.27	27.27	27.27		
Demand Factor						100%		1.00					
Total Demand Current								81.82					
Size of Wire													
IFL = 27.27 x 1.732 = 47.23 Amperes													
at 100% Demand = 47.23 Amperes													
Use: 3 #AWG or 220 mm <sup>2</sup> THHN Cu wire + 1 x 8.0 mm <sup>2</sup> THHN Cu ground in 300 mm diam PVC													
Size of Circuit Breaker Protected on:													
IFL = 27.27 x 1.732 = 47.23 Amp													
at 100% Demand = 47.23 Amp													
Use: 60 AT, 30 Bolt-On Type CB													

Panel No.	P	AT	AE	TAIC	LOAD DESCRIPTION	VA	VOLT	AMP	AB	BC	CA	SIZE OF WIRE	CONDUIT
1	2	20	50	10	8 Apron Floodlights - Taxiway Delta	4000	220	18.18	18.18			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
2	2	20	50	10	8 Apron Floodlights - Taxiway Delta	4000	220	18.18	18.18			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
3	2	20	50	10	8 Apron Floodlights - Taxiway Delta	4000	220	18.18	18.18			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
4	2	20	50	10	8 Apron Floodlights - Taxiway Delta	4000	220	18.18	18.18			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
5	2	20	50	10	8 Apron Floodlights - Taxiway Delta	4000	220	18.18	18.18			2-3/8 sqmm THHN CU + 1-3/8 sqmm THHN CU (9)	
Total Connected Load IFL						20000		90.91	36.36	36.36	36.36		
Demand Factor						100%		1.00					
Total Demand Current								90.91					
Size of Wire													
IFL = 96.97 x 1.732 = 167.98 Amperes													
at 100% Demand = 167.98 Amperes													
Use: 3 #AWG or 220 mm <sup>2</sup> THHN Cu wire + 1 x 8.0 mm <sup>2</sup> THHN Cu ground in 300 mm diam PVC													
Size of Circuit Breaker Protected on:													
IFL = 96.97 x 1.732 = 167.98 Amp													
at 100% Demand = 167.98 Amp													
Use: 80 AT, 30 Bolt-On Type CB													

MAIN DISTRIBUTION PANEL (MDF)												
Panel	VA	VOLT	AMP	AB	BC	CA	SIZE OF WIRE	CONDUIT				
A12 - Apron Lighting - Taxiway Delta, Bravo and Alpha	18000	220	27.27	27.27	27.27	27.27	3-22.0 sqmm THHN CU + 1-8.0 sqmm THHN CU (9)	100mm Ø PVC				
A12 - Apron Lighting (Remote Parking) - Taxiway Delta	20000	220	90.91	36.36	36.36	36.36	3-22.0 sqmm THHN CU + 1-8.0 sqmm THHN CU (9)	100mm Ø PVC				
TOTAL	38000		127.23	63.64	63.64	63.64						

Size of Wire: IFL = 83.64 x 1.732 = 144.77 Amperes  
at 100% Demand = 144.77 Amperes

Size of Circuit Breaker Protection: IFL = 83.64 x 1.732 = 144.77 Amps  
at 100% Demand = 144.77 Amps

Use: 2 sets - 3 #AWG or 22.0 mm<sup>2</sup> THHN Cu wire + 1 x 8.0 mm<sup>2</sup> THHN Cu ground in 100mm diam PVC  
or 1 set - 3 #1/0 AWG or 50.0 mm<sup>2</sup> THHN Cu wire + 1 x 16.0 mm<sup>2</sup> THHN Cu ground in 100mm diam PVC

LOAD SCHEDULE



PROJECT LOCATION:  
Supply and Installation of LED (Light Emitting Diode) Apron Floodlights and Obstruction Lights at the Apron Ramp and Remote Parking Area of Clark International Airport Corporation  
CLARK INTERNATIONAL AIRPORT CORPORATION  
ONE AVIATION COMPLEX, CLARK FREEPORT ZONE, PAMPANGA

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DISCIPLINE:  
ELECTRICAL  
LOAD SCHEDULE

