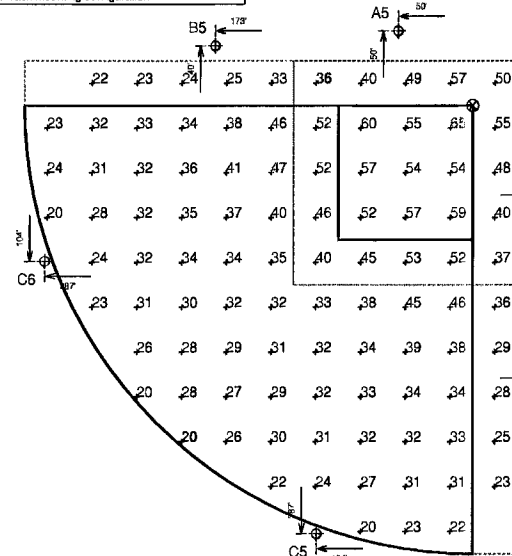


EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE	HEIGHT	LAMP	TYPE	QTY	THIS	OTHER
1	A4	70"	-	70'	1500W MZ	5/5*	5	5	0
1	A5	70"	-	70'	1500W MZ	5/5*	5	5	0
1	B4	70"	-	70'	1500W MZ	7/7*	7	7	0
1	B5	70"	-	70'	1500W MZ	7/7*	7	7	0
8	TOTALS						48	34	12

This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 80

Pole location(s) + dimensions are relative to 0,0 reference point(s)



GUARANTEED PERFORMANCE

ILLUMINATION SUMMARY

Lorenzi Park
Lorenzi Park
Las Vegas, NV

Baseball #3
Size: 300'x300' - 90' Basepath
Grid Spacing = 30.0' x 30.0'
Values given at 3.0' above grade

Luminaire Type: Green Generation
Rated Lamp Life: 5000 hours
Avg Lumens/Lamp: 134,000

CONSTANT ILLUMINATION HORIZONTAL FOOTCANDLES

	Infield	Outfield
No. of Target Points:	25	73
Average:	50.8	30.7
Maximum:	65	47
Minimum:	35	20
Avg/Min:	1.43	1.55
Max/Min:	1.83	2.38
UG (Adjacent Pts):	1.54	1.54
CV:	0.15	0.21

Average Lamp Tilt Factor: 1.000
Number of Luminaires: 34
Avg KW over 5000 hours: 53.18
Max KW: 57.8

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

Field Measurements: Averages shall be +/-10% in accordance with IESNA RP-6-01 and CIBSE LG4. Individual measurements may vary from computer predictions.

Electrical System Requirements: Refer to Ampereage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

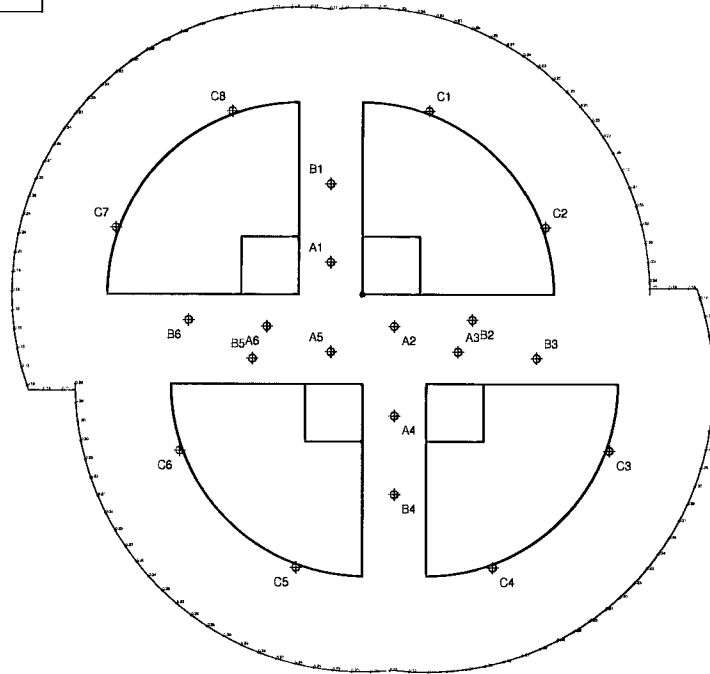
By: Eric Svenby Date: 15-Mar-07
File #: 126990

Not to be reproduced in whole or part without the written consent of Musco Lighting. ©1981, 2007 Musco Lighting

Print Date (15/Mar/2007) & Time (09:05)

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE	HEIGHT	LAMP	TYPE	QTY	THIS	OTHER
2	A1, A4	70"	-	70'	1500W MZ	5/5*	10	0	0
12	A2-A3	70"	-	70'	1500W MZ	5/5*	6	6	0
1	C1-C8	70"	-	70'	1500W MZ	7/7*	14	0	0
2	B1, B4	70"	-	70'	1500W MZ	7/7*	14	0	0
4	B2-B3	70"	-	70'	1500W MZ	7/7*	7	7	0
20	TOTALS						138	138	0

This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 150

Pole location(s) + dimensions are relative to 0,0 reference point(s)



GUARANTEED PERFORMANCE

ILLUMINATION SUMMARY

150' Spill
Lorenzi Park
Las Vegas, NV

150' Spill
Grid Spacing = 30.0'
Values given at 3.0' above grade

Luminaire Type: Green Generation
Rated Lamp Life: 5000 hours
Avg Lumens/Lamp: 134,000

CONSTANT ILLUMINATION HORIZONTAL FOOTCANDLES

	Entire Grid
No. of Target Points:	117
Average:	0.238
Maximum:	0.38
Minimum:	0.12
Average Lamp Tilt Factor:	1.000
Number of Luminaires:	138
Avg KW over 5000 hours:	212.7
Max KW:	231.2

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

Field Measurements: Averages shall be +/-10% in accordance with IESNA RP-6-01 and CIBSE LG4. Individual measurements may vary from computer predictions.

Electrical System Requirements: Refer to Ampereage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

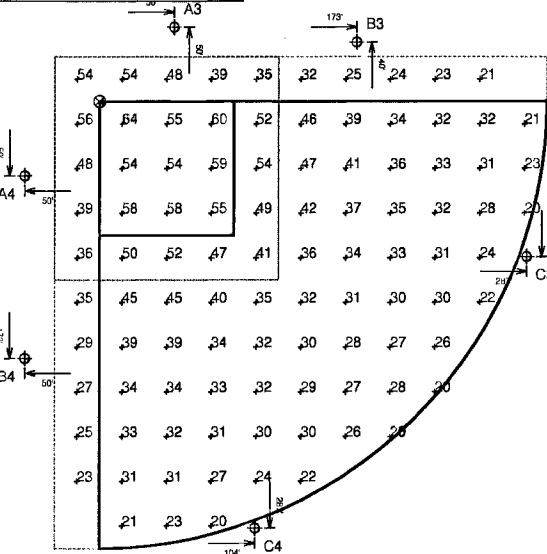
By: Eric Svenby Date: 15-Mar-07
File #: 126990

Not to be reproduced in whole or part without the written consent of Musco Lighting. ©1981, 2007 Musco Lighting

Print Date (15/Mar/2007) & Time (09:11)

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE	HEIGHT	LAMP	TYPE	QTY	THIS	OTHER
3	A3	70"	-	70'	1500W MZ	5/5*	5	5	0
1	A4	70"	-	70'	1500W MZ	5/5*	5	5	0
1	B3	70"	-	70'	1500W MZ	7/7*	7	7	0
1	B4	70"	-	70'	1500W MZ	7/7*	7	7	0
8	TOTALS						48	34	12

This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 80

Pole location(s) + dimensions are relative to 0,0 reference point(s)



GUARANTEED PERFORMANCE

ILLUMINATION SUMMARY

Lorenzi Park
Lorenzi Park
Las Vegas, NV

Baseball #2
Size: 300'x300' - 90' Basepath
Grid Spacing = 30.0' x 30.0'
Values given at 3.0' above grade

Luminaire Type: Green Generation
Rated Lamp Life: 5000 hours
Avg Lumens/Lamp: 134,000

CONSTANT ILLUMINATION HORIZONTAL FOOTCANDLES

	Infield	Outfield
No. of Target Points:	25	73
Average:	50.8	30.7
Maximum:	64	47
Minimum:	35	20
Avg/Min:	1.43	1.55
Max/Min:	1.83	2.42
UG (Adjacent Pts):	1.55	1.55
CV:	0.15	0.22

Average Lamp Tilt Factor: 1.000
Number of Luminaires: 34
Avg KW over 5000 hours: 53.18
Max KW: 57.8

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

Field Measurements: Averages shall be +/-10% in accordance with IESNA RP-6-01 and CIBSE LG4. Individual measurements may vary from computer predictions.

Electrical System Requirements: Refer to Ampereage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

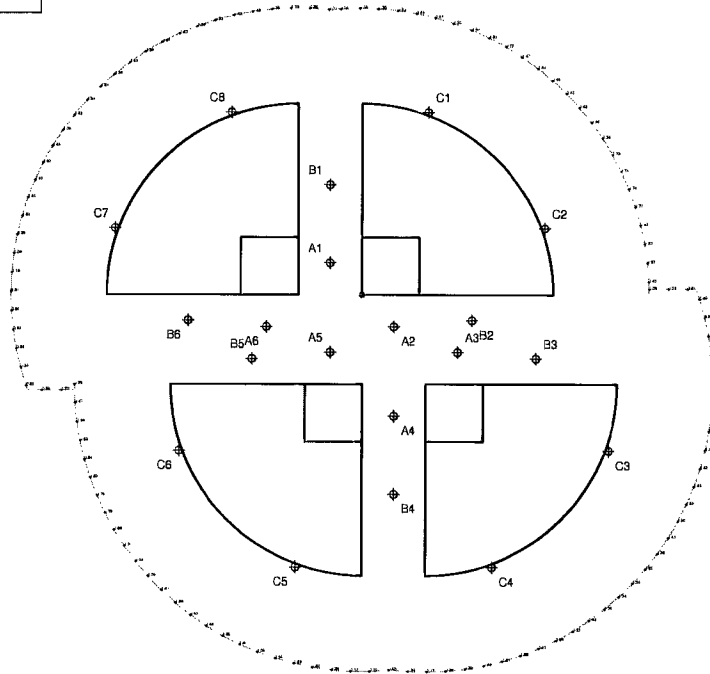
By: Eric Svenby Date: 15-Mar-07
File #: 126990

Not to be reproduced in whole or part without the written consent of Musco Lighting. ©1981, 2007 Musco Lighting

Print Date (15/Mar/2007) & Time (09:05)

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE	HEIGHT	LAMP	TYPE	QTY	THIS	OTHER
2	A1, A4	70"	-	70'	1500W MZ	5/5*	10	0	0
12	A2-A3	70"	-	70'	1500W MZ	5/5*	6	6	0
1	C1-C8	70"	-	70'	1500W MZ	7/7*	14	0	0
2	B1, B4	70"	-	70'	1500W MZ	7/7*	14	0	0
4	B2-B3	70"	-	70'	1500W MZ	7/7*	7	7	0
20	TOTALS						138	138	0

This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 150

Pole location(s) + dimensions are relative to 0,0 reference point(s)



GUARANTEED PERFORMANCE

ILLUMINATION SUMMARY

150' Spill
Lorenzi Park
Las Vegas, NV

150' Spill
Grid Spacing = 30.0'
Values given at 3.0' above grade

Luminaire Type: Green Generation
Rated Lamp Life: 5000 hours
Avg Lumens/Lamp: 134,000

CONSTANT ILLUMINATION MAX VERTICAL FOOTCANDLES

	Entire Grid
No. of Target Points:	117
Average:	1.78
Maximum:	2.38
Minimum:	0.83
Average Lamp Tilt Factor:	1.000
Number of Luminaires:	138
Avg KW over 5000 hours:	212.7
Max KW:	231.2

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

Field Measurements: Averages shall be +/-10% in accordance with IESNA RP-6-01 and CIBSE LG4. Individual measurements may vary from computer predictions.

Electrical System Requirements: Refer to Ampereage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

RECORD DRAWINGS NOT FOR CONSTRUCTION

1. TO ALTER THESE DOCUMENTS FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ORIGINAL ARCHITECT IS A VIOLATION OF THE ECA.
2. THIS RECORD DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY THE GENERAL CONTRACTOR. WHILE THE INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL CANNOT ASSURE ITS ACCURACY, AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.
3. INFORMATION THAT MAY BE INCLUDED WOULD BE SIGNIFICANT CHANGES TO PLANTING OR IRRIGATION LAYOUT PLANS AND ASSOCIATED DRAWINGS, MINOR DIMENSION OR CONSTRUCTION DETAIL CHANGES MAY NOT BE INCLUDED.

By: Eric Svenby Date: 15-Mar-07
File #: 126990

Not to be reproduced in whole or part without the written consent of Musco Lighting. ©1981, 2007 Musco Lighting

Print Date (15/Mar/2007) & Time (09:11)

7-10-09 Record Drawing

CONSULTANT

Professional Design Associates, Inc.
Electrical and Mechanical Engineers
505 Grand Street, Henderson, NV 89015
(702) 567-1022 Fax: (702) 567-1025
email: pda@pdacorp.com
website: www.pdacorp.com

Engineering License
PDA Project No. 2004

STAMP

Lorenzi Park Renovations
Phase 1
SPORTS LIGHTING DETAILS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89103
PHONE: (702) 228-6535
FAX: (702) 386-6866
TDD: (702) 386-9108

DRAWN
JCF
FILE
06-063
DATE
JUNE 2007
SCALE
AS SHOWN
SHEET NO.
REVISED NO.

SHEET NO.
E4.06

19364