

EQUIPMENT LIST FOR AREAS SHOWN									
QTY	Pole		GRADE ELEVATION	MOUNTING HEIGHT	Luminaires		QTY / POLE	THIS GRID	OTHER GRIDS
	LOCATION	SIZE			LAMP TYPE				
2	A1-A2	80'	-	80'	1500W MZ		6	5	0
2	B1-B2	90'	-	90'	1500W MZ		10	10	0
4	C1-C2 D1-D2	80'	-	80'	1500W MZ		5	5	0
8	TOTALS						52	52	0



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Baseball
Size:	325'/400'/325' - basepath 90'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

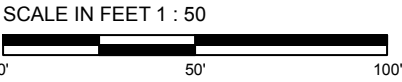
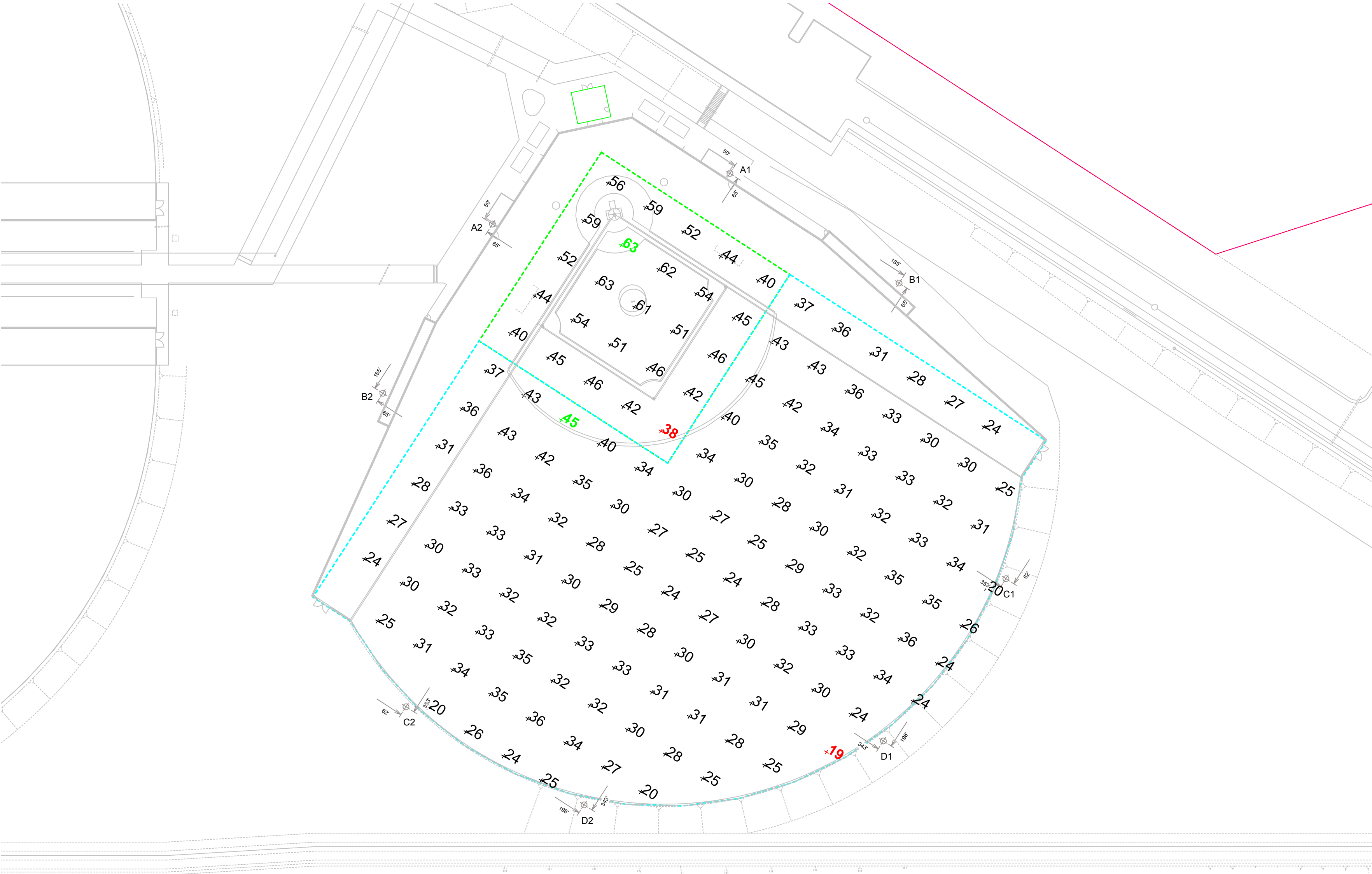
CONSTANT ILLUMINATION		
SUMMARY	HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	50.27	31.16
Maximum:	63	45
Minimum:	38	19
Avg / Min:	1.31	1.67
Guaranteed Max / Min:	2	2.5
Max / Min:	1.65	2.42
UG (adjacent pts):	1.22	1.69
CU:	0.64	
No. of Points:	25	119
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Rated Lamp Life:	5,000 hours	
Design Lumens:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	52	
Avg KW:	81.33 (88.4 max)	

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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

ENGINEERED DESIGN		
By:	Sarah Ross	
File # / Date:	163382R2	17-Apr-14

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN									
QTY	Pole		GRADE ELEVATION	MOUNTING HEIGHT	Luminaires		QTY / POLE	THIS GRID	OTHER GRIDS
	LOCATION	SIZE			LAMP TYPE				
2	A3-A4	70'	-	70'	1500W MZ		4	4	0
2	B3-B4	70'	-	70'	1500W MZ		8	8	0
2	C3-C4	70'	-	70'	1500W MZ		5	5	0
6	TOTALS						34	34	0



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Softball 1
Size:	300'/300'/300' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

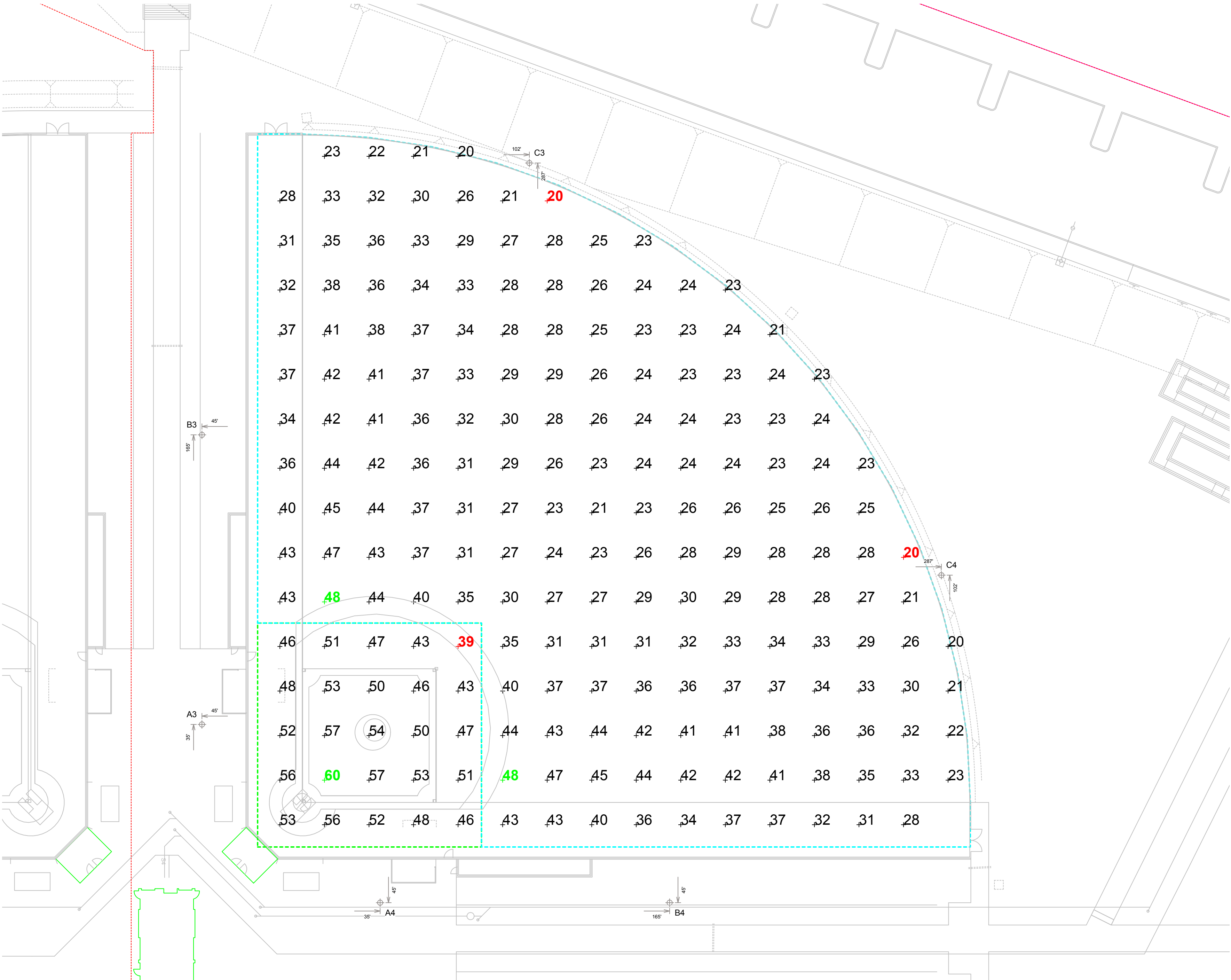
CONSTANT ILLUMINATION		
SUMMARY	HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	50.46	31.56
Maximum:	60	48
Minimum:	39	20
Avg / Min:	1.28	1.58
Guaranteed Max / Min:	2	2.5
Max / Min:	1.54	2.40
UG (adjacent pts):	1.11	1.48
CU:	0.61	
No. of Points:	25	181
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Rated Lamp Life:	5,000 hours	
Design Lumens:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	34	
Avg KW:	53.18 (57.8 max)	

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole			GRADE ELEVATION	MOUNTING HEIGHT	Luminaires			
QTY	LOCATION	SIZE			LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S1-S2	70'		70'	1500W MZ	5	5	0
2	S3-S4	70'	-	70'	1500W MZ	5/5*	5	5
4	TOTALS					30	20	10

* This structure utilizes a back-to-back mounting configuration



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Soccer 1
Size:	300' x 180'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average:	30
Scan Average:	30.33
Maximum:	35
Minimum:	26
Avg / Min:	1.15
Guaranteed Max / Min:	2.5
Max / Min:	1.33
UG (adjacent pts):	1.22
CU:	0.61
No. of Points:	60
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	20
Avg KW:	31.28 (34.0 max)

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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EQUIPMENT LIST FOR AREAS SHOWN								
Pole			GRADE ELEVATION	MOUNTING HEIGHT	Luminaires			
QTY	LOCATION	SIZE			LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	S3-S4 S9-S10	70"		70"	1500W MZ	5/5*	5	5
4	TOTALS					40	20	20

* This structure utilizes a back-to-back mounting configuration



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Soccer 2
Size:	300' x 180'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

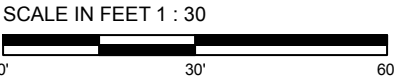
CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average:	30
Scan Average:	30.23
Maximum:	36
Minimum:	24
Avg / Min:	1.27
Guaranteed Max / Min:	2.5
Max / Min:	1.52
UG (adjacent pts):	1.40
CU:	0.61
No. of Points:	60
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	20
Avg KW:	31.28 (34.0 max)

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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

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Pole			GRADE ELEVATION	MOUNTING HEIGHT	Luminaires		QTY / POLE	THIS GRID	OTHER GRIDS
QTY	LOCATION	SIZE			LAMP TYPE				
2	A11-A12	70'	-	70'	1500W MZ		2	2	0
2	B11-B12	70'	-	70'	1500W MZ		5	5	0
2	C11-C12	70'	-	70'	1500W MZ		3	3	0
6	TOTALS						20	20	0



MY PROJECT	
Name:	Central Maui Regional Park Ballfields
Location:	Phase 1 Kahului, HI

GRID SUMMARY	
Name:	Softball 5
Size:	200'/225'/200' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

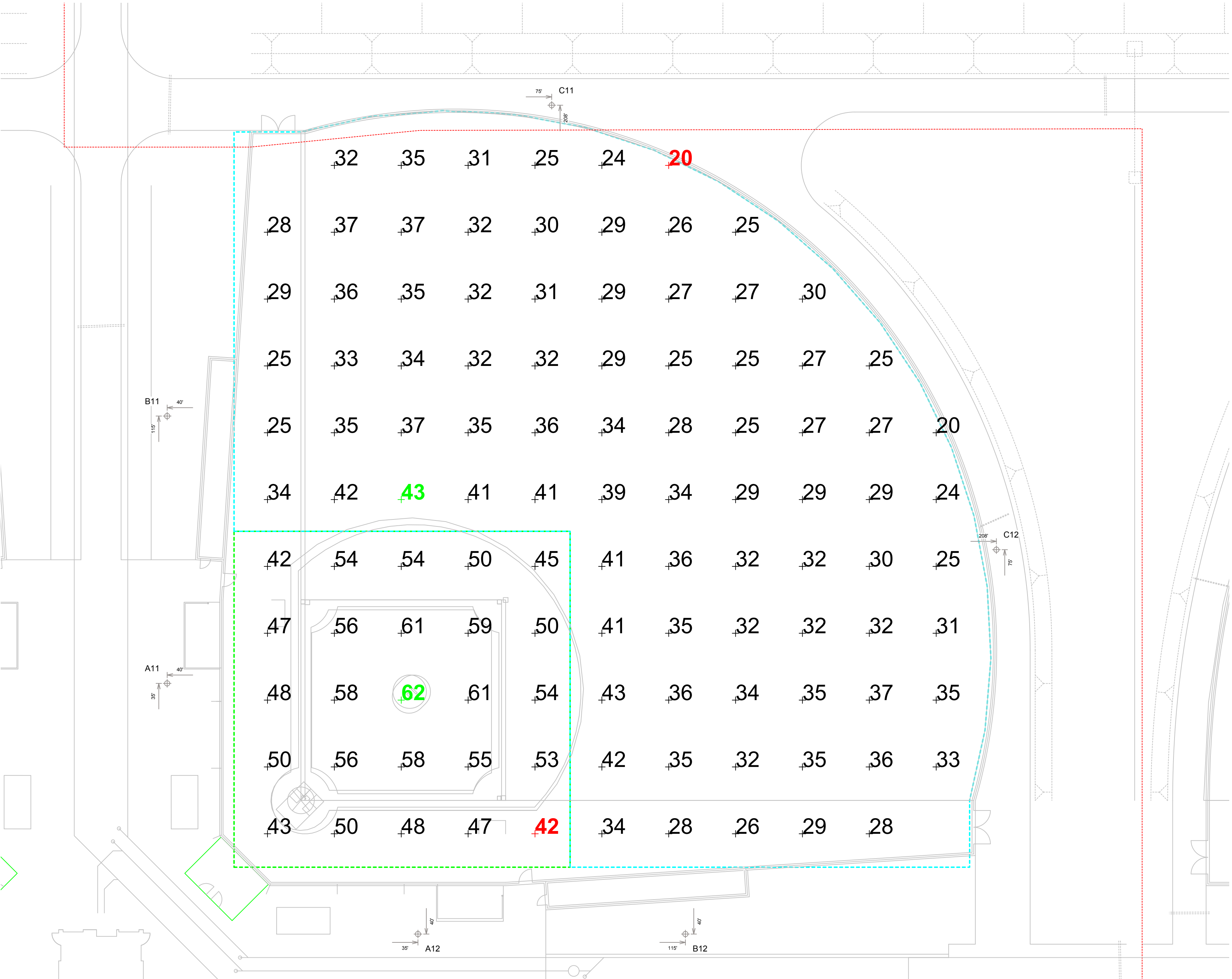
CONSTANT ILLUMINATION		
SUMMARY	HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	52.21	31.76
Maximum:	62	43
Minimum:	42	20
Avg / Min:	1.25	1.56
Guaranteed Max / Min:	2	2.5
Max / Min:	1.50	2.11
UG (adjacent pts):	1.27	1.38
CU:	0.59	
No. of Points:	25	84
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Rated Lamp Life:	5,000 hours	
Design Lumens:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	20	
Avg KW:	31.28 (34.0 max)	

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A15-A16	70'	-	70'	1500W MZ	2	2	5	0
2	B15-B16	70'	-	70'	1500W MZ	5	5	0	0
2	C15-C16	70'	-	70'	1500W MZ	3	3	0	0
6	TOTALS					20	20	0	0



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Softball 7
Size:	200'/225'/200' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

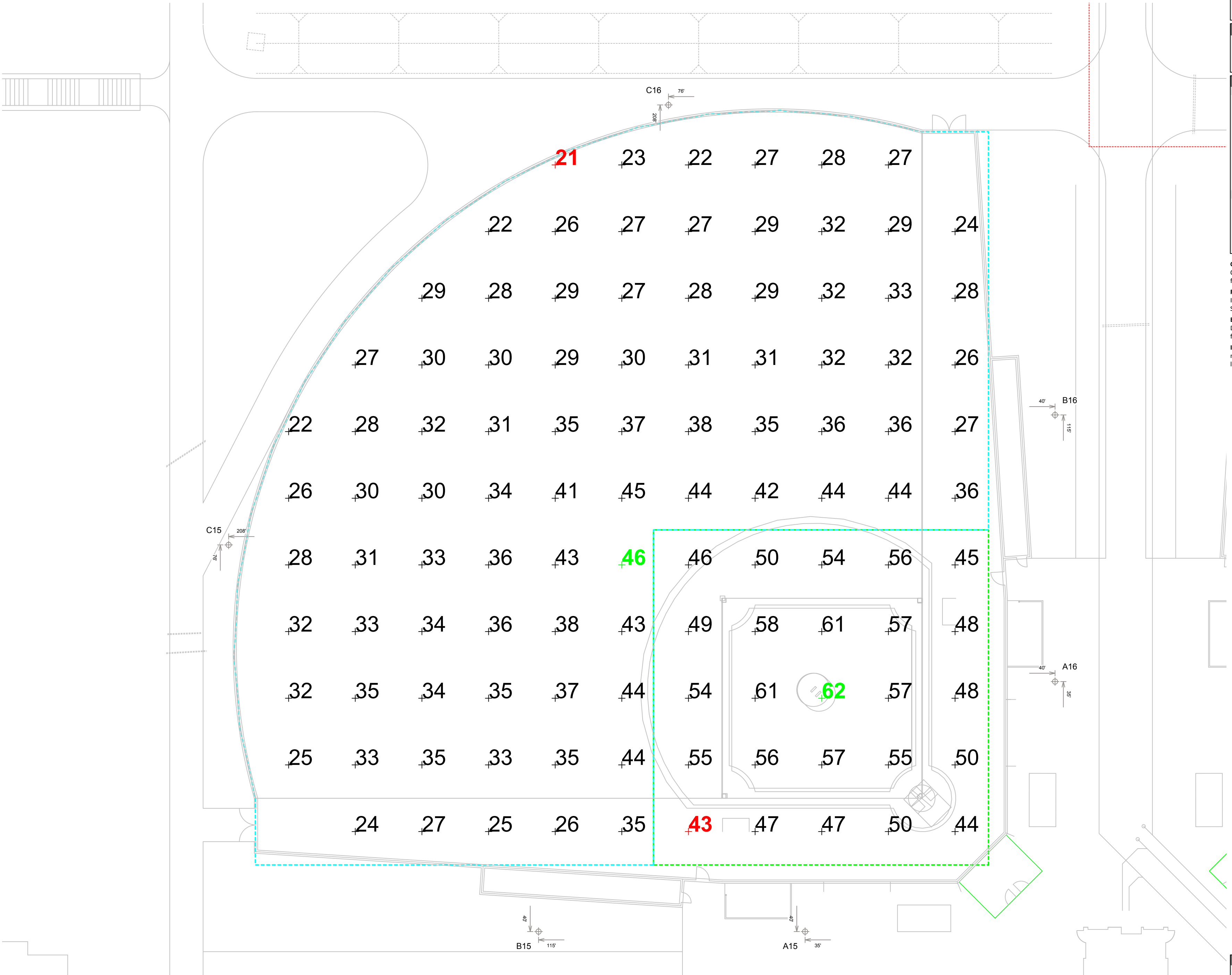
CONSTANT ILLUMINATION		
SUMMARY	HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	52.38	32.03
Maximum:	62	46
Minimum:	43	21
Avg / Min:	1.22	1.56
Guaranteed Max / Min:	2	2.5
Max / Min:	1.44	2.24
UG (adjacent pts):	1.27	1.40
CU:	0.60	
No. of Points:	25	84
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Rated Lamp Life:	5,000 hours	
Design Lumens:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	20	
Avg KW:	31.28 (34.0 max)	

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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

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SCALE IN FEET 1 : 20

0' 20' 40'

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EQUIPMENT LIST FOR AREAS SHOWN									
Pole			GRADE ELEVATION	MOUNTING HEIGHT	Luminaires				
QTY	LOCATION	SIZE			LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	S7-S8	70'	-	70'	1500W MZ	5	5	0	
2	S9-S10	70'	-	70'	1500W MZ	5/5*	5	5	
4	TOTALS					30	20	10	

* This structure utilizes a back-to-back mounting configuration



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Soccer 3
Size:	300' x 180'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

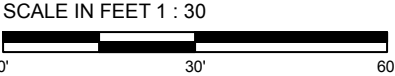
CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average:	30
Scan Average:	30.33
Maximum:	35
Minimum:	26
Avg / Min:	1.15
Guaranteed Max / Min:	2.5
Max / Min:	1.33
UG (adjacent pts):	1.22
CU:	0.61
No. of Points:	60
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	20
Avg KW:	31.28 (34.0 max)

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Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			GRADE ELEVATION	MOUNTING HEIGHT	Luminaires		THIS GRID	OTHER GRIDS	
QTY	LOCATION	SIZE			LAMP TYPE	QTY / POLE			
2	A5-A6	70'	-	70'	1500W MZ	4	4	0	
2	B5-B6	70'	-	70'	1500W MZ	7	7	0	
2	C5-C6	70'	-	70'	1500W MZ	5	5	0	
6	TOTALS					32	32	0	



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Softball 2
Size:	300'/300'/300' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

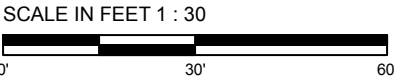
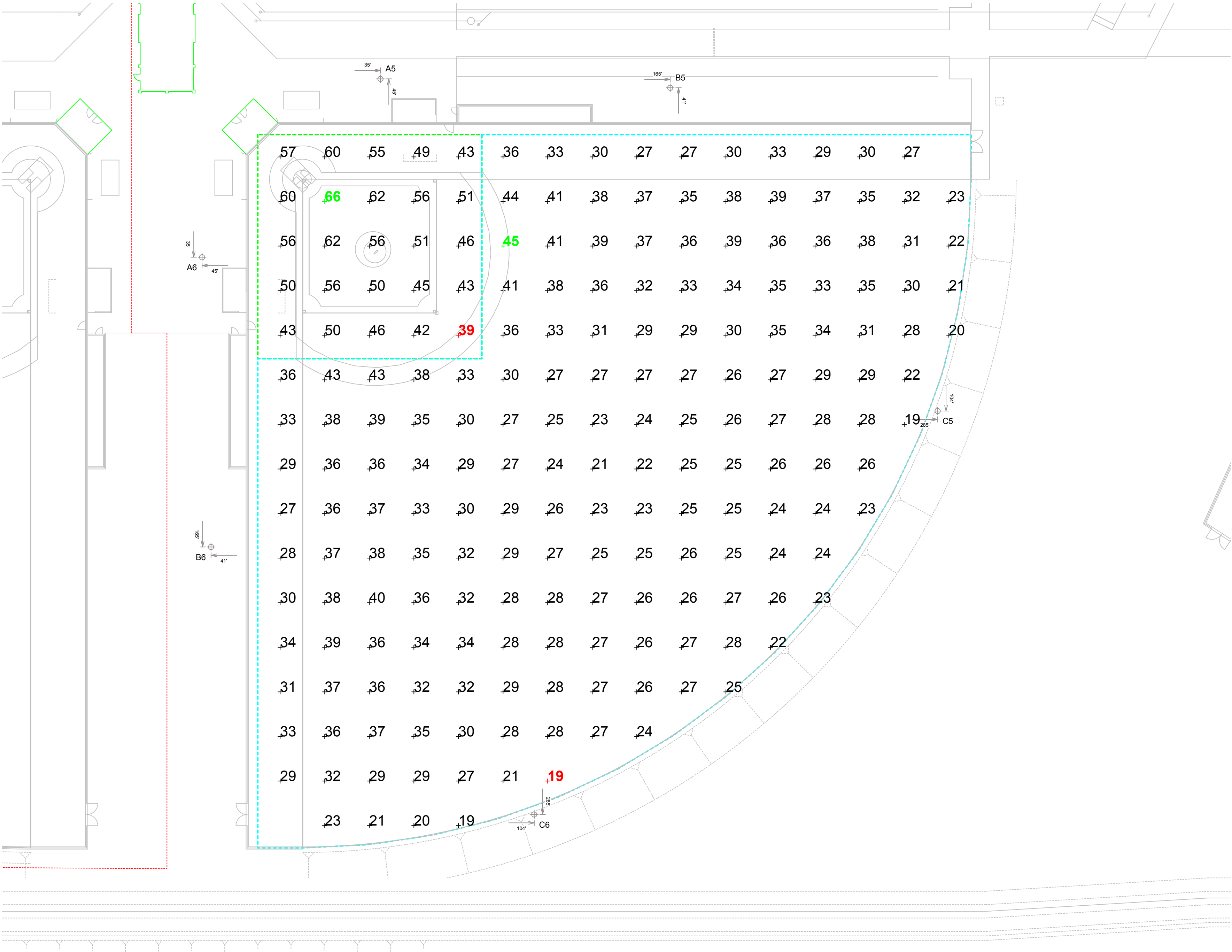
CONSTANT ILLUMINATION		
SUMMARY	HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	51.83	30.19
Maximum:	66	45
Minimum:	39	19
Avg / Min:	1.32	1.62
Guaranteed Max / Min:	2	2.5
Max / Min:	1.69	2.41
UG (adjacent pts):	1.18	1.51
CU:	0.63	
No. of Points:	25	181
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Rated Lamp Life:	5,000 hours	
Design Lumens:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	32	
Avg KW:	50.05 (54.4 max)	

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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EQUIPMENT LIST FOR AREAS SHOWN									
Pole			GRADE ELEVATION	MOUNTING HEIGHT	Luminaires		QTY / POLE	THIS GRID	OTHER GRIDS
QTY	LOCATION	SIZE			LAMP TYPE	SIZE			
2	A9-A10	70'	-	70'	1500W MZ	4	4	4	0
2	B9-B10	70'	-	70'	1500W MZ	7	7	7	0
2	C9-C10	70'	-	70'	1500W MZ	5	5	5	0
6	TOTALS						32	32	0



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Softball 4
Size:	300'/300'/300' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

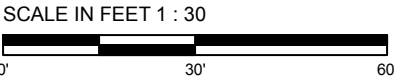
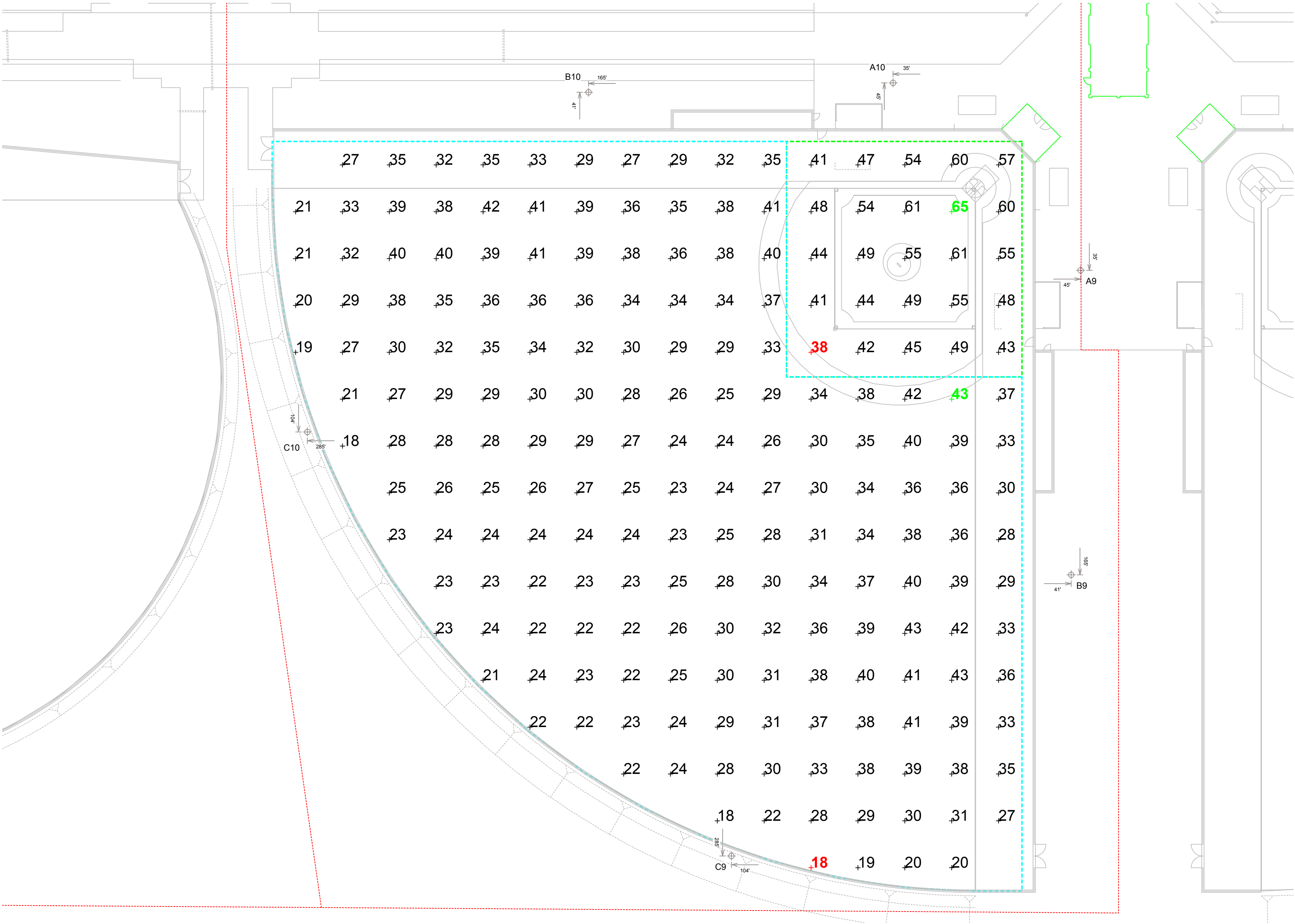
CONSTANT ILLUMINATION		
SUMMARY	HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	50.57	30.63
Maximum:	65	43
Minimum:	38	18
Avg / Min:	1.31	1.73
Guaranteed Max / Min:	2	2.5
Max / Min:	1.69	2.42
UG (adjacent pts):	1.18	1.57
CU:	0.64	
No. of Points:	25	181
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Rated Lamp Life:	5,000 hours	
Design Lumens:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	32	
Avg KW:	50.05 (54.4 max)	

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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

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Pole			GRADE ELEVATION	MOUNTING HEIGHT	Luminaires		QTY / POLE	THIS GRID	OTHER GRIDS
QTY	LOCATION	SIZE			LAMP TYPE				
2	A7-A8	70'	-	70'	1500W MZ		4	4	0
2	B7-B8	70'	-	70'	1500W MZ		7	7	0
2	C7-C8	70'	-	70'	1500W MZ		5	5	0
6	TOTALS						32	32	0



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Softball 3
Size:	300'/300'/300' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

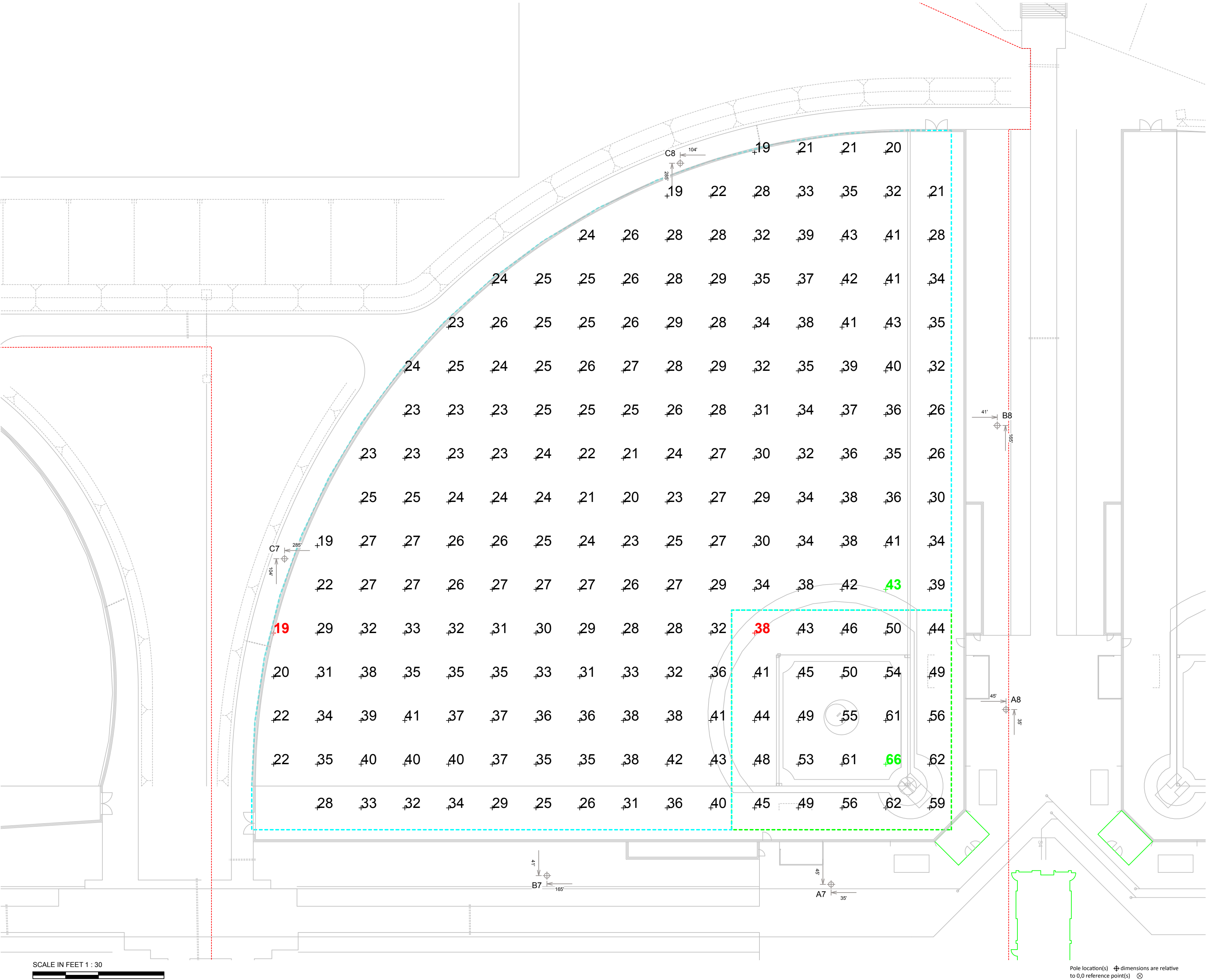
CONSTANT ILLUMINATION		
SUMMARY	HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	51.48	30.21
Maximum:	66	43
Minimum:	38	19
Avg / Min:	1.35	1.62
Guaranteed Max / Min:	2	2.5
Max / Min:	1.74	2.33
UG (adjacent pts):	1.16	1.67
CU:	0.63	
No. of Points:	25	181
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Rated Lamp Life:	5,000 hours	
Design Lumens:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	32	
Avg KW:	50.05 (54.4 max)	

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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ENGINEERED DESIGN		
By:	Sarah Ross	
File # / Date:	163382R2	17-Apr-14

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A13-A14	70'	-	70'	1500W MZ	3	3	0	
2	B13-B14	70'	-	70'	1500W MZ	5	5	0	
2	C13-C14	70'	-	70'	1500W MZ	4	4	0	
6	TOTALS					24	24	0	



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Softball 6
Size:	225'/275'/225' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

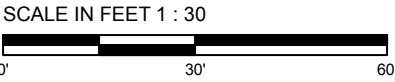
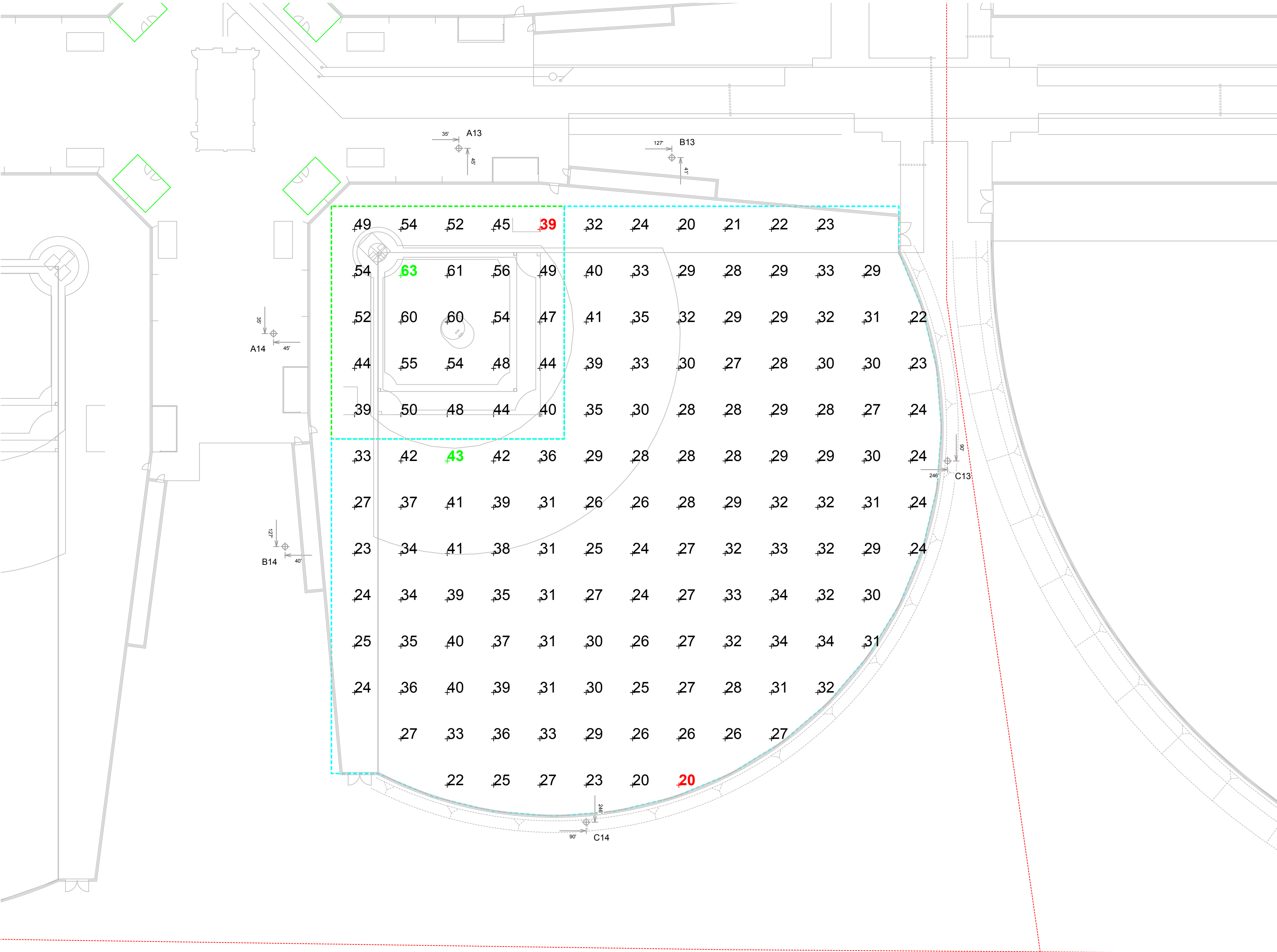
CONSTANT ILLUMINATION		
SUMMARY	HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	50.42	30.14
Maximum:	63	43
Minimum:	39	20
Avg / Min:	1.30	1.53
Guaranteed Max / Min:	2	2.5
Max / Min:	1.62	2.19
UG (adjacent pts):	1.28	1.53
CU:	0.63	
No. of Points:	25	126
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Rated Lamp Life:	5,000 hours	
Design Lumens:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	24	
Avg KW:	37.54 (40.8 max)	

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			GRADE ELEVATION	MOUNTING HEIGHT	Luminaires		QTY / POLE	THIS GRID	OTHER GRIDS
QTY	LOCATION	SIZE			LAMP TYPE	SIZE			
2	A17-A18	70'	-	70'	1500W MZ	3	3	3	0
2	B17-B18	70'	-	70'	1500W MZ	7	7	7	0
2	C17-C18	70'	-	70'	1500W MZ	5	5	5	0
6	TOTALS						30	30	0



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Softball 8
Size:	265'/315'/265' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

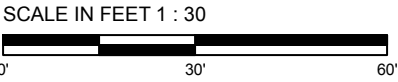
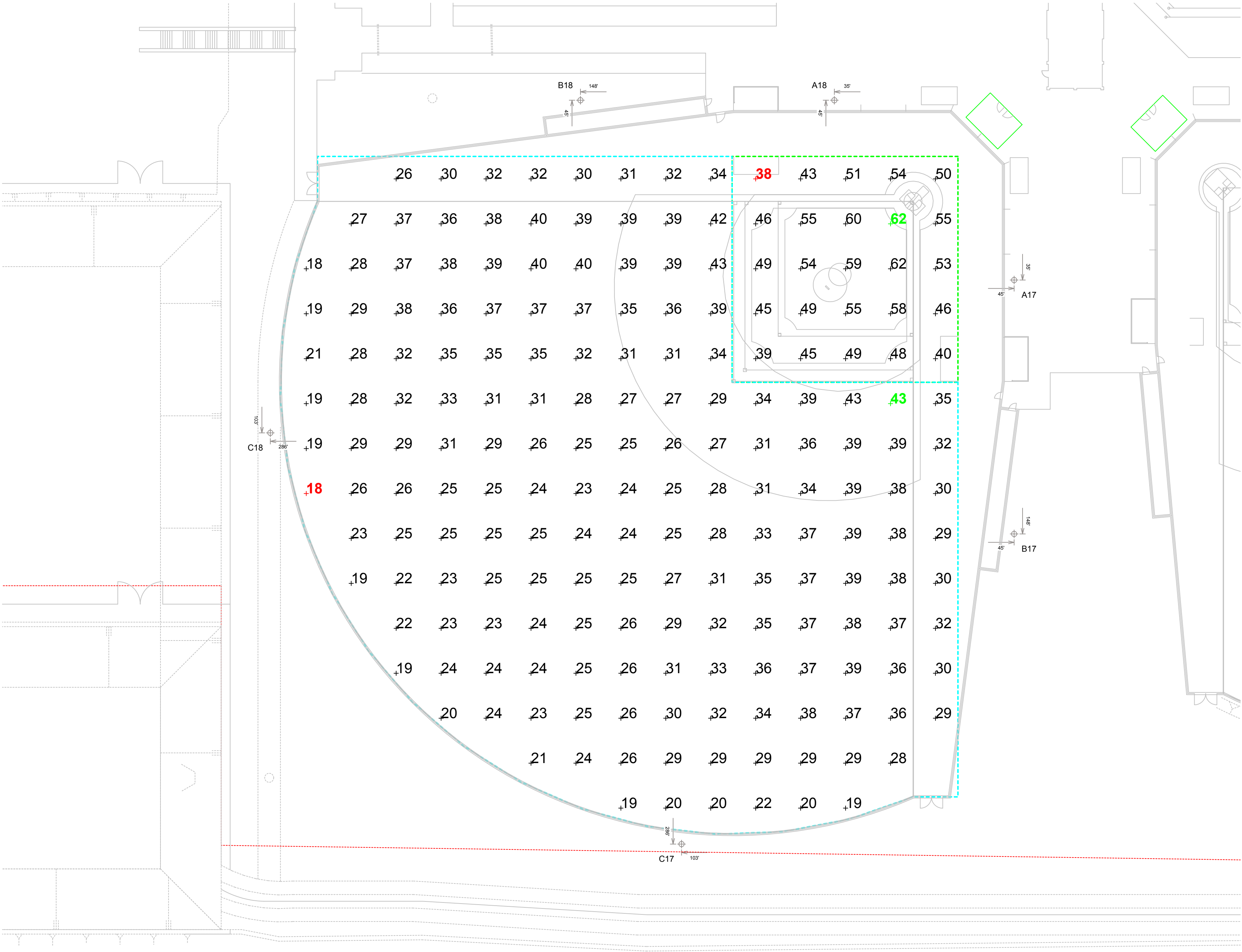
CONSTANT ILLUMINATION		
SUMMARY	HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	50.56	30.23
Maximum:	62	43
Minimum:	38	18
Avg / Min:	1.34	1.65
Guaranteed Max / Min:	2	2.5
Max / Min:	1.64	2.36
UG (adjacent pts):	1.28	1.53
CU:	0.65	
No. of Points:	25	173
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Rated Lamp Life:	5,000 hours	
Design Lumens:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	30	
Avg KW:	46.92 (51.0 max)	

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A1-A2	80'	-	70'	1500W MZ	6	6	0	
10	A3-A10 C13-C14	70'	-	70'	1500W MZ	4	4	0	
4	A11-A12 A15-A16	70'	-	70'	1500W MZ	2	2	0	
8	A13-A14 A17-A18 C11-C12 C15-C16	70'	-	70'	1500W MZ	3	3	0	
2	B1-B2	90'	-	90'	1500W MZ	10	10	0	
2	B3-B4	70'	-	70'	1500W MZ	8	8	0	
20	B11-B16 C17-C18 C3-C10 S1-S2 S7-S8	70'	-	70'	1500W MZ	5	5	0	
8	B17-B18 B5-B10	70'	-	70'	1500W MZ	7	7	0	
4	C1-C2 D1-D2	80'	-	80'	1500W MZ	5	5	0	
4	S3-S4 S9-S10	70'	-	70'	1500W MZ	5/5*	10	0	
64	TOTALS					336	336	0	

* This structure utilizes a back-to-back mounting configuration



MY PROJECT	
Name:	Central Maui Regional Park Ballfields
Location:	Kahului, HI

GRID SUMMARY	
Name:	Blanket Grid
Spacing:	50.0' x 50.0'
Height:	3.0' above grade

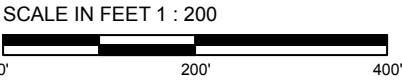
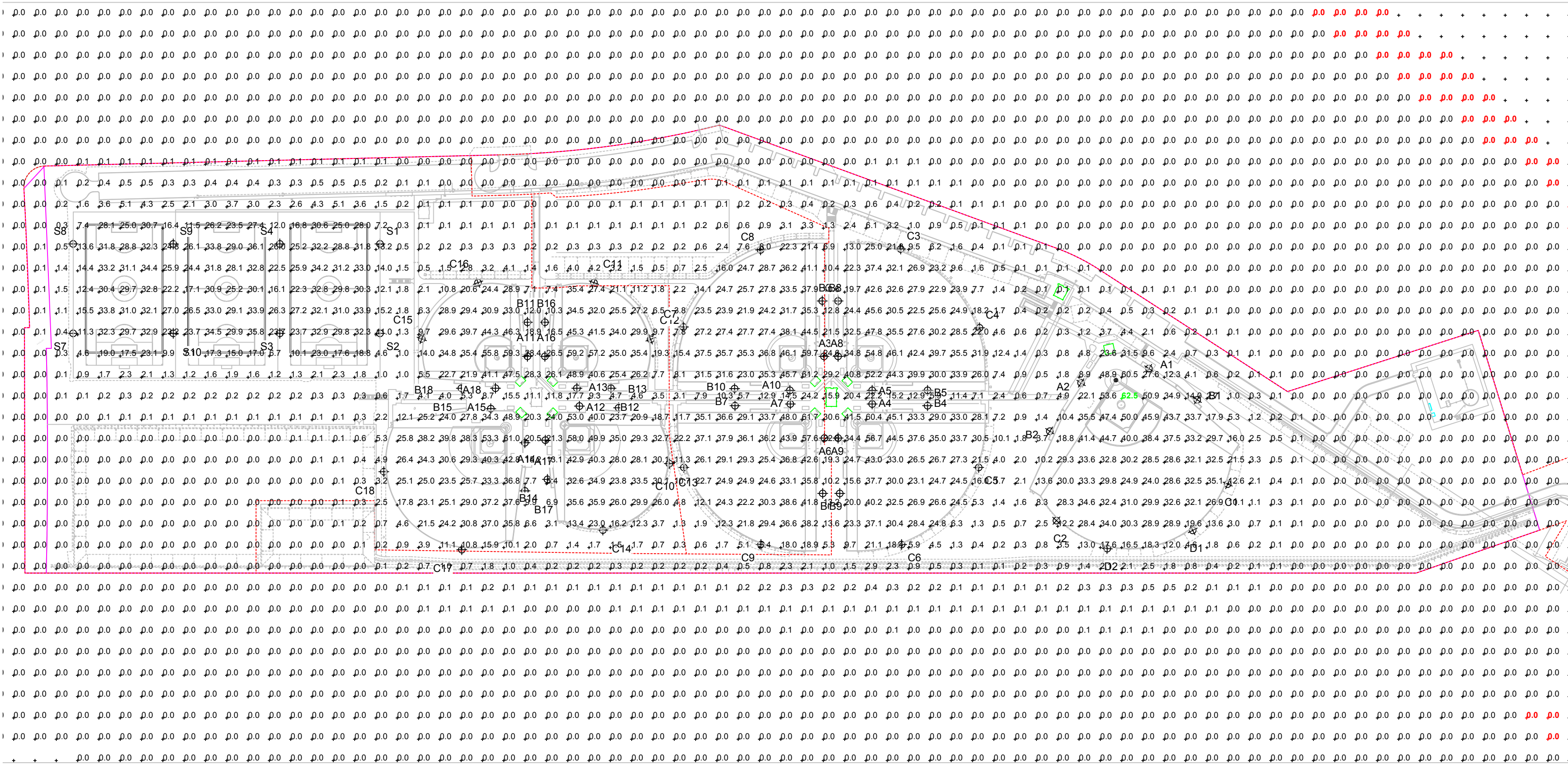
CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	5.17
Maximum:	63
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	28.83
CU:	0.82
No. of Points:	2988
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	336
Avg KW:	525.5 (571.2 max)

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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

ENGINEERED DESIGN	
By:	Sarah Ross
File # / Date:	163382R2
17-Apr-14	

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN										
Pole				Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY/ POLE	THIS GRID	OTHER GRIDS		
2	A1-A2	80'	-	80'	1500W MZ	6	6	0		
2	A3-A4	70'	-	70'	1500W MZ	4	4	0		
2	A11-A12	70'	-	70'	1500W MZ	2	2	0		
2	B1-B2	90'	-	90'	1500W MZ	10	10	0		
2	B3-B4	70'	-	70'	1500W MZ	8	8	0		
4	B11-B12	70'	-	70'	1500W MZ	5	5	0		
	C3-C4									
4	C1-C2	80'	-	80'	1500W MZ	5	5	0		
	D1-D2									
2	C11-C12	70'	-	70'	1500W MZ	3	3	0		
20	TOTALS						106	106	0	



MY PROJECT	
Name:	Central Maui Regional Park Ballfields
Location:	Phase 1 Kahului, HI

GRID SUMMARY	
Name:	Blanket Grid - Phase 1
Spacing:	50.0' x 50.0'
Height:	3.0' above grade

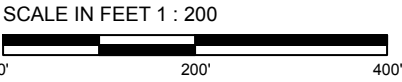
CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
Entire Grid	
Scan Average:	1.94
Maximum:	62
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	25.28
CU:	0.81
No. of Points:	2988
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	106
Avg KW:	165.78 (180.2 max)

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	80'	-	80'	1500W MZ	6	6	0
10	A3-A10 C13-C14	70'	-	70'	1500W MZ	4	4	0
4	A11-A12 A15-A16	70'	-	70'	1500W MZ	2	2	0
8	A13-A14 A17-A18 C11-C12 C15-C16	70'	-	70'	1500W MZ	3	3	0
2	B1-B2	90'	-	90'	1500W MZ	10	10	0
2	B3-B4	70'	-	70'	1500W MZ	8	8	0
20	B11-B16 C17-C18 C3-C10 S1-S2 S7-S8	70'	-	70'	1500W MZ	5	5	0
8	B17-B18 B5-B10	70'	-	70'	1500W MZ	7	7	0
4	C1-C2 D1-D2	80'	-	80'	1500W MZ	5	5	0
4	S3-S4 S9-S10	70'	-	70'	1500W MZ	5/5*	10	0
64	TOTALS					336	336	0

* This structure utilizes a back-to-back mounting configuration



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Spill at Property Line
Spacing:	30.0'
Height:	3.0' above grade

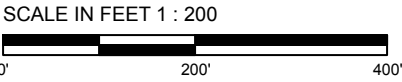
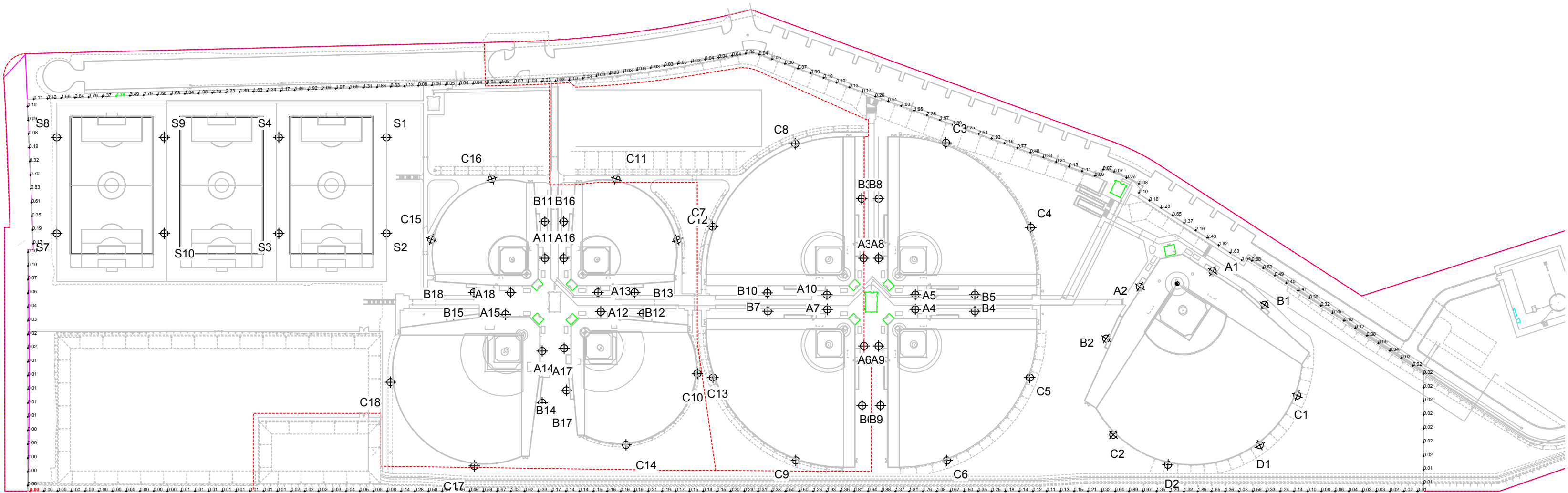
CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
Entire Grid	
Scan Average:	0.5472
Maximum:	4.39
Minimum:	0.00
No. of Points:	249
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	336
Avg KW:	525.5 (571.2 max)

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	80'	-	80'	1500W MZ	6	6	0
10	A3-A10 C13-C14	70'	-	70'	1500W MZ	4	4	0
4	A11-A12 A15-A16	70'	-	70'	1500W MZ	2	2	0
8	A13-A14 A17-A18 C11-C12 C15-C16	70'	-	70'	1500W MZ	3	3	0
2	B1-B2	90'	-	90'	1500W MZ	10	10	0
2	B3-B4	70'	-	70'	1500W MZ	8	8	0
20	B11-B16 C17-C18 C3-C10 S1-S2 S7-S8	70'	-	70'	1500W MZ	5	5	0
8	B17-B18 B5-B10	70'	-	70'	1500W MZ	7	7	0
4	C1-C2 D1-D2	80'	-	80'	1500W MZ	5	5	0
4	S3-S4 S9-S10	70'	-	70'	1500W MZ	5/5*	10	0
64	TOTALS					336	336	0

* This structure utilizes a back-to-back mounting configuration



MY PROJECT	
Name:	Central Maui Regional Park Ballfields Phase 1
Location:	Kahului, HI

GRID SUMMARY	
Name:	Spill at Property Line
Spacing:	30.0'
Height:	3.0' above grade

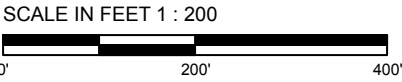
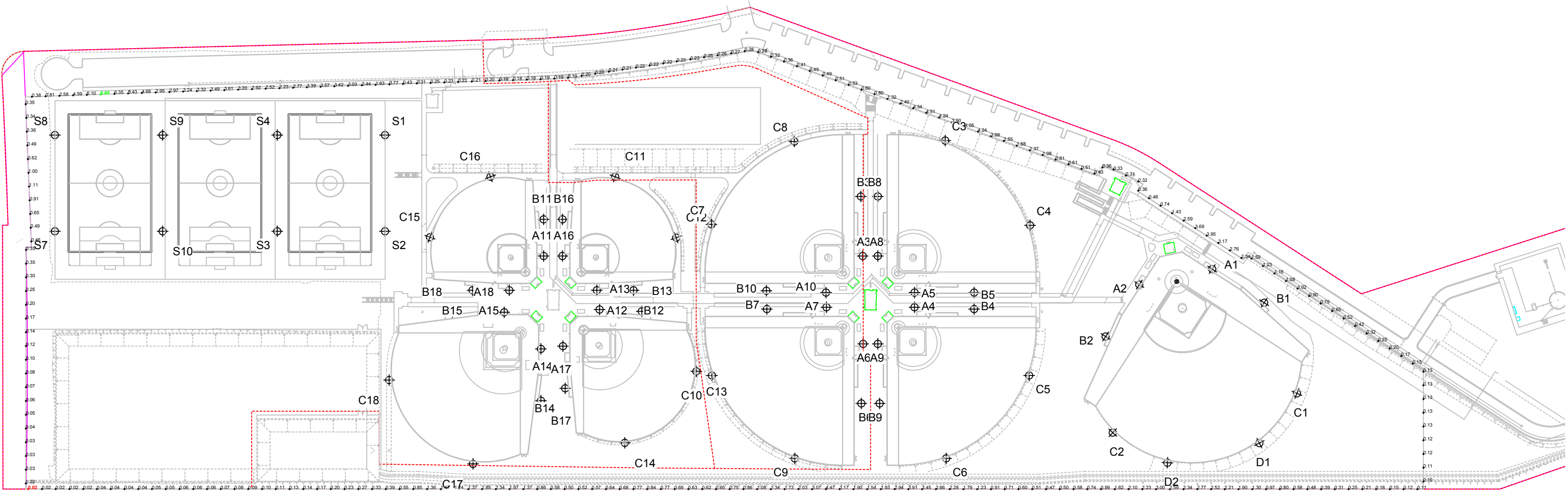
CONSTANT ILLUMINATION	
SUMMARY	MAX VERTICAL FOOTCANDLES
Entire Grid	
Scan Average:	1.1605
Maximum:	6.65
Minimum:	0.02
No. of Points:	249
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	336
Avg KW:	525.5 (571.2 max)

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

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage 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.



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

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MY PROJECT

Name: Central Maui Regional Park Ballfields
Phase 1
Location: Kahului, HI

EQUIPMENT LAYOUT

INCLUDES:

- Baseball
- Soccer 1
- Soccer 2
- Soccer 3
- Softball 1
- Softball 2
- Softball 3
- Softball 4
- Softball 5
- Softball 6
- Softball 7
- Softball 8

Electrical System Requirements: Refer to Amperage 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.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	Luminaires	
					LAMP TYPE	QTY / POLE
2	A1-A2	80'	-	80'	1500W MZ	6
10	A3-A10 C13-C14	70'	-	70'	1500W MZ	4
4	A11-A12 A15-A16	70'	-	70'	1500W MZ	2
8	A13-A14 A17-A18 C11-C12 C15-C16	70'	-	70'	1500W MZ	3
2	B1-B2	90'	-	90'	1500W MZ	10
2	B3-B4	70'	-	70'	1500W MZ	8
20	B11-B16 C17-C18 S1-S2 S7-S8	70'	-	70'	1500W MZ	5
8	B17-B18 B5-B10	70'	-	70'	1500W MZ	7
4	C1-C2	80'	-	80'	1500W MZ	5
4	S3-S4 S9-S10	70'	-	70'	1500W MZ	5/5*
64	TOTALS					336

* This structure utilizes a back-to-back mounting configuration

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage	208	220	240	277	347	380	480
1500 watt MZ	8.6	8.3	7.5	6.5	5.1	4.7	3.7

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SCALE IN FEET 1 : 200

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