

EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	F1	120'	-	90'	Dome LED 4500K	3	0	3	
				120'	1500W MZ	32	32	0	
1	F2	120'	-	90'	Dome LED 4500K	2	0	2	
				120'	1500W MZ	32	32	0	
2	F3, F5	120'	-	120'	1500W MZ	24	24	0	
1	F4	120'	-	120'	1500W MZ	24	24	0	
5	TOTALS					141	136	5	



MY PROJECT	
Name:	UNH Cowell Stadium
Location:	Durham,NH

GRID SUMMARY	
Name:	Cowell Stadium
Size:	360.0' x 160.0'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

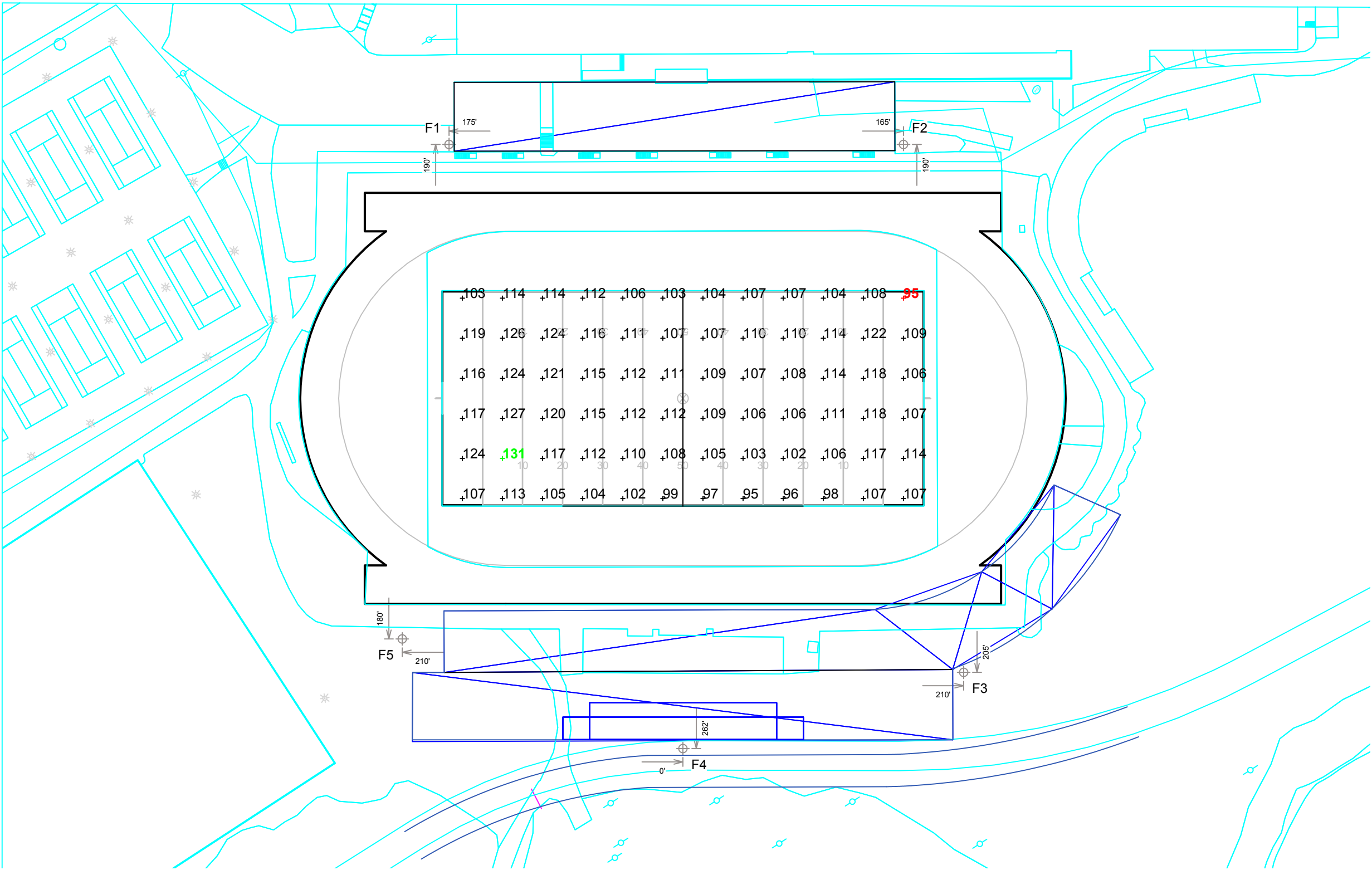
CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average:	100
Scan Average:	110.4
Maximum:	131
Minimum:	95
Avg / Min:	1.17
Guaranteed Max / Min:	1.7
Max / Min:	1.38
UG (adjacent pts):	1.16
CV:	0.07
CU:	0.39
No. of Points:	72
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Avg Lumens / Lamp:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	136
Avg KW:	212.7 (231.2 max)

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

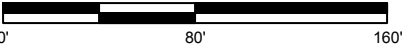
Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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.



SCALE IN FEET 1 : 80



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

ENGINEERED DESIGN		
By:	Ryan A. Marsh, LC	
File # / Date:	147059F	19-Feb-14

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	F1	120'	-	90'	Dome LED 4500K	3	0	3
				120'	1500W MZ	32	16	16
1	F2	120'	-	90'	Dome LED 4500K	2	0	2
				120'	1500W MZ	32	16	16
2	F3, F5	120'	-	120'	1500W MZ	24	16	8
1	F4	120'	-	120'	1500W MZ	24	16	8
5	TOTALS					141	80	61



MY PROJECT

Name:	UNH Cowell Stadium
Location:	Durham,NH

GRID SUMMARY

Name:	Cowell Stadium Practice
Size:	360.0' x 160.0'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

CONSTANT ILLUMINATION

SUMMARY		HORIZONTAL FOOTCANDLES
		Entire Grid
Guaranteed Average:	50	
Scan Average:	62.9	
Maximum:	81	
Minimum:	55	
Avg / Min:	1.15	
Guaranteed Max / Min:	2	
Max / Min:	1.49	
UG (adjacent pts):	1.20	
CV:	0.09	
CU:	0.38	
No. of Points:	72	
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Rated Lamp Life:	5,000 hours	
Avg Lumens / Lamp:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	80	
Avg KW:	125.12 (136.0 max)	

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

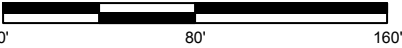
Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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.

NOTES: 50FC Practice Level

SCALE IN FEET 1 : 80



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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
1	F1	120'	-	90'	Dome LED 4500K	3	3
				120'	1500W MZ	32	0
1	F2	120'	-	90'	Dome LED 4500K	2	2
				120'	1500W MZ	32	0
2	TOTALS					69	5
							64



MY PROJECT	
Name:	UNH Cowell Stadium
Location:	Durham,NH

GRID SUMMARY	
Name:	Bleachers - Current Home Side
Spacing:	10.0' x 10.0'
Height:	6.9' above grade

CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	4.1
Maximum:	14
Minimum:	1
Avg / Min:	7.64
Max / Min:	25.13
UG (adjacent pts):	0.00
CV:	0.63
No. of Points:	165
LUMINAIRE INFORMATION	
Luminaire Type:	LED - SSL
Rated Lamp Life:	100,000 hours
Avg Lumens / Lamp:	42,850
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	5
Avg KW:	2.95 (3.34 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.

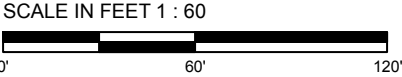
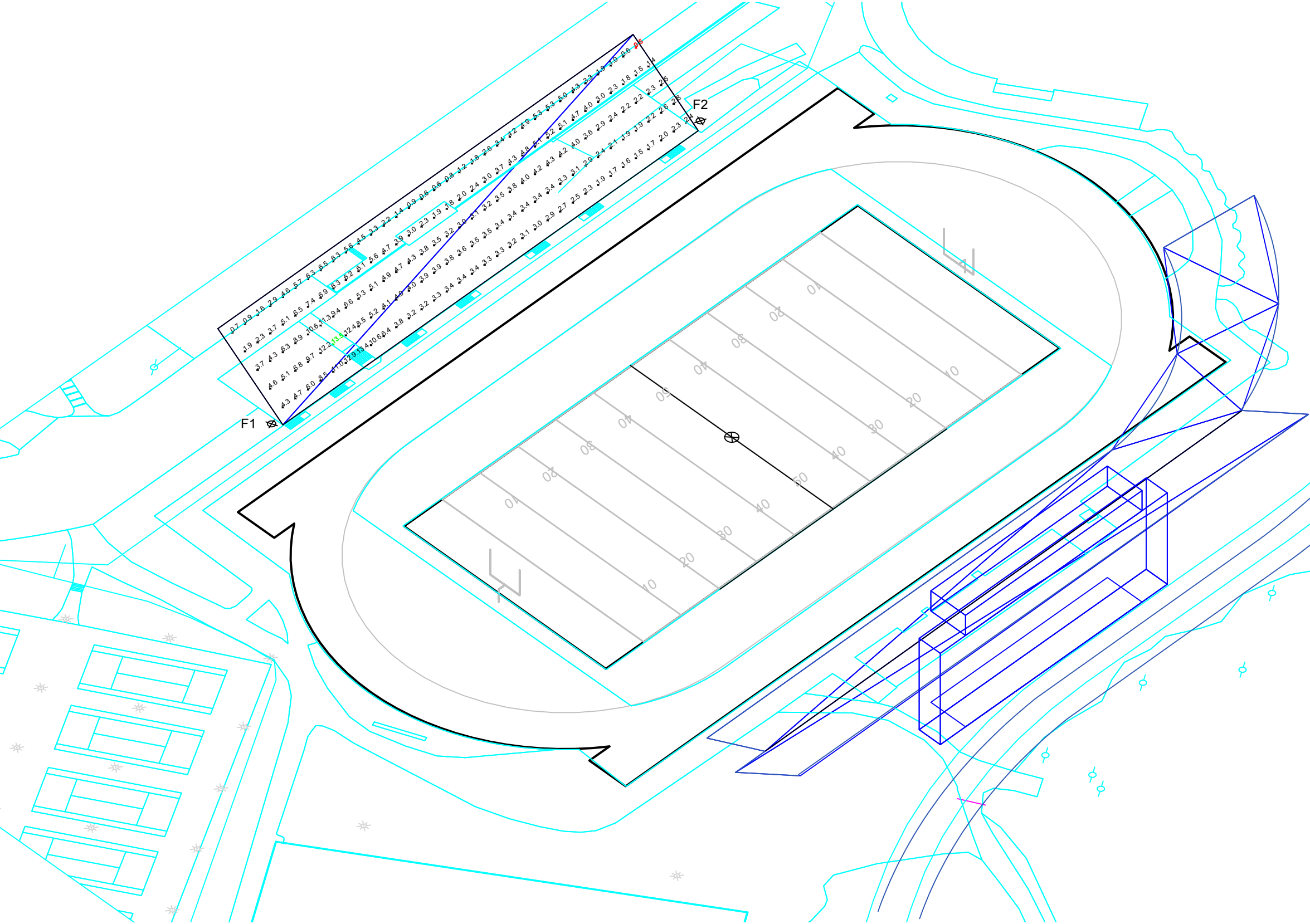
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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

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ILLUMINATION SUMMARY



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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	F1	120'	-	90'	Dome LED 4500K	3	0	3
				120'	1500W MZ	32	8	24
1	F2	120'	-	90'	Dome LED 4500K	2	0	2
				120'	1500W MZ	32	8	24
2	F3, F5	120'	-	120'	1500W MZ	24	8	16
1	F4	120'	-	120'	1500W MZ	24	8	16
5	TOTALS					141	40	101



MY PROJECT

Name:	UNH Cowell Stadium
Location:	Durham,NH

GRID SUMMARY

Name:	Blanket Grid/Clean-up
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

CONSTANT ILLUMINATION

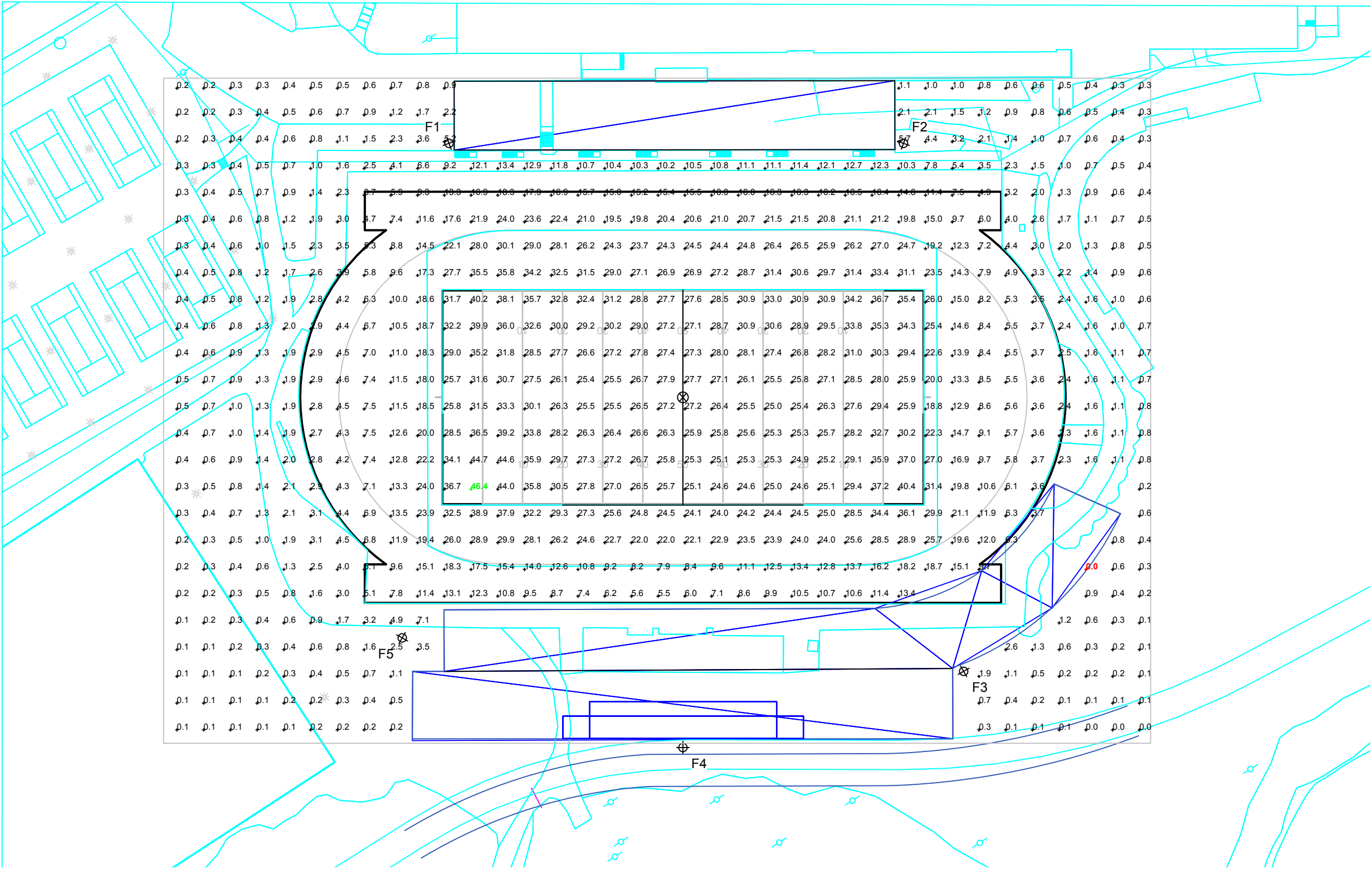
SUMMARY	HORIZONTAL FOOTCANDLES
Entire Grid	
Scan Average:	12.3
Maximum:	46
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	3.99
CV:	0.99
No. of Points:	752
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Avg Lumens / Lamp:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	40
Avg KW:	62.56 (68.0 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.



SCALE IN FEET 1 : 80



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

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ILLUMINATION SUMMARY

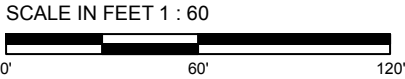
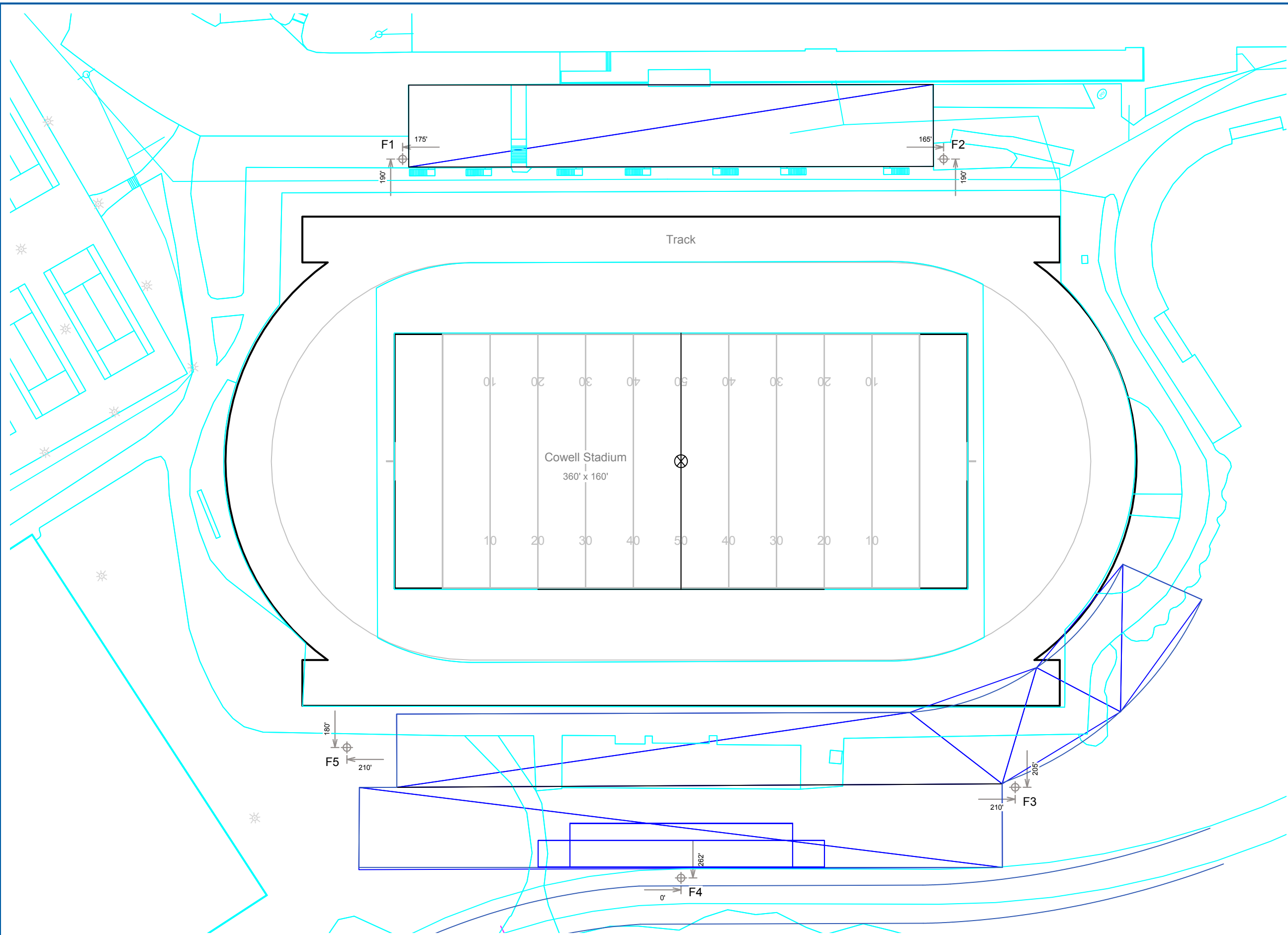


MY PROJECT	
Name:	UNH Cowell Stadium
Location:	Durham,NH

EQUIPMENT LAYOUT	
INCLUDES: · Cowell Stadium · Track	
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						
Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE
1	F1	120'	-	90'	Dome LED 4500K	3
				120'	1500W MZ	32
1	F2	120'	-	90'	Dome LED 4500K	2
				120'	1500W MZ	32
2	F3, F5	120'	-	120'	1500W MZ	24
1	F4	120'	-	120'	1500W MZ	24
5	TOTALS					141

SINGLE LUMINAIRE AMPERAGE DRAW CHART							
Ballast Specifications (.90 min power factor)		Line Amperage Per Luminaire (max draw)					
Single Phase Voltage		208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
1500 watt MZ		8.6	8.3	7.5	6.5	5.1	4.7
Other		-	-	-	-	-	-



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