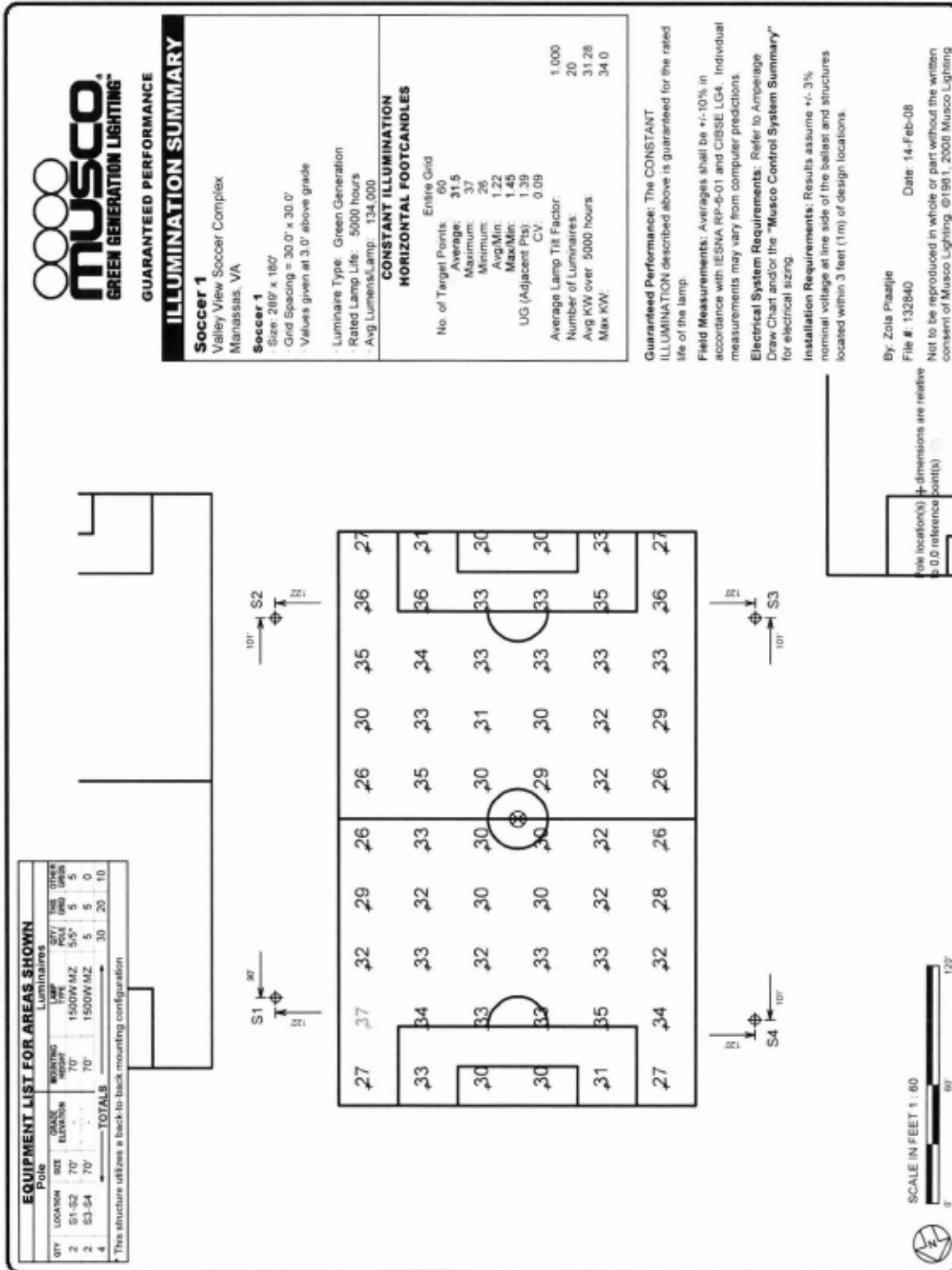



# Attachment C – Applicant’s Submission ILLUMINATION SUMMARY – SOCCER FIELD #1



# Attachment C – Applicant’s Submission ILLUMINATION SUMMARY – SOCCER FIELD #2



**MUSCO**  
GREEN GENERATION LIGHTING™

**GUARANTEED PERFORMANCE**

**ILLUMINATION SUMMARY**

**Soccer 2**  
Valley View Soccer Complex  
Manassas, VA

**Soccer 2**  
- Size: 285' x 180'  
- 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**

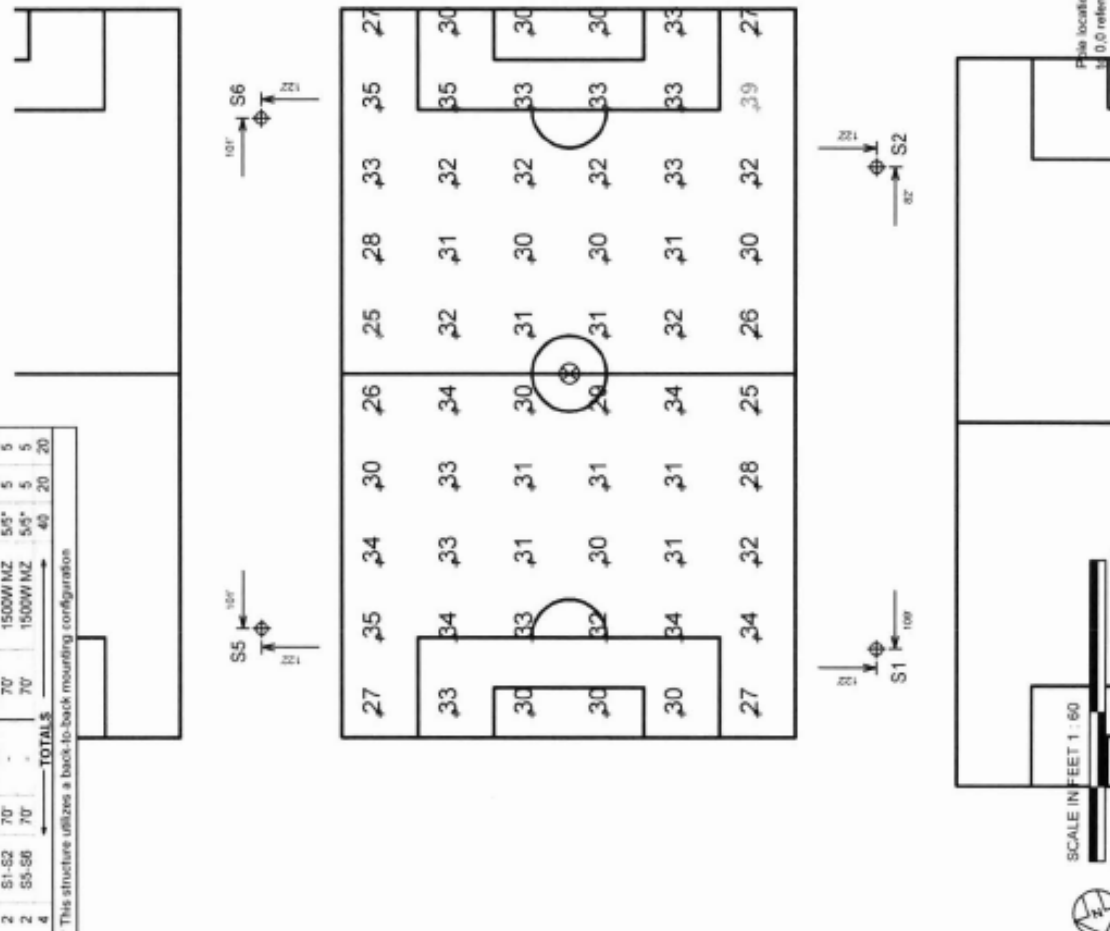
**HORIZONTAL FOOTCANDLES**

No. of Target Points: 60	
Entire Grid	
Average: 31.2	
Maximum: 39	
Minimum: 25	
Avg/Min: 1.26	
Max/Min: 1.56	
UG (Adjacent Pts): 1.44	
CV: 0.09	
Average Lamp Tilt Factor: 1.000	
Number of Luminaires: 20	
Avg KW over 5000 hours: 31.28	
Max KW: 34.0	

**EQUIPMENT LIST FOR AREAS SHOWN**

QTY	LOCATION	SIZE	HOOR ELEVATION	HOOR HEIGHT	HOOR TYPE	HOOR TYPE	HOOR TYPE	HOOR TYPE	HOOR TYPE
2	S1-S2	70'	70'	1500W NZ	5.5'	5	5	5	5
2	S5-S6	70'	70'	1500W NZ	5.5'	5	5	5	5
4	<b>TOTALS</b>								
					40	20	20	20	20

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



Scale: 1" = 60'


North Arrow

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

By: Zola Plazajic  
File #: 132840  
Date: 14-Feb-08

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# Attachment C – Applicant’s Submission ILLUMINATION SUMMARY – SOCCER FIELD #3



**MUSCO**  
GREEN GENERATION LIGHTING™

**GUARANTEED PERFORMANCE**

**ILLUMINATION SUMMARY**

**Soccer 3**  
Valley View Soccer Complex  
Manassas, VA

**Soccer 3**  
- Size: 288' x 180'  
- 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**

Entire Grid	
No. of Target Points:	60
Average:	31.1
Maximum:	36
Minimum:	26
Avg/Min:	1.21
Max/Min:	1.42
UG (Adjacent Pts):	1.34
CV:	0.09
Average Lamp Tilt Factor:	1.000
Number of Luminaires:	20
Avg KW over 5000 hours:	31.28
Max KW:	34.0

**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 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	BRAND	MODEL	QTY / THIS ORDER
2	S5-S8	70'	1500W	NL2	5 0
2	S7-S8	70'	1500W	NL2	5 0
4	TOTALS				20 0

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

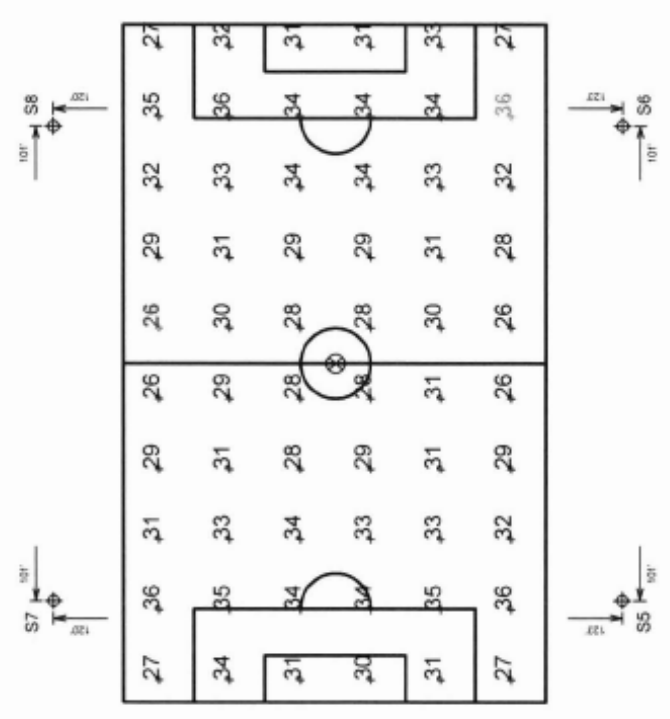



Diagram showing luminaire locations (S5, S6, S7, S8) and footcandle readings across the field grid. The grid is 288' x 180' with 30' spacing. Footcandle values range from 26 to 36.

By: Zola Pfaatje  
File #: 132/040  
Date: 14-Feb-08

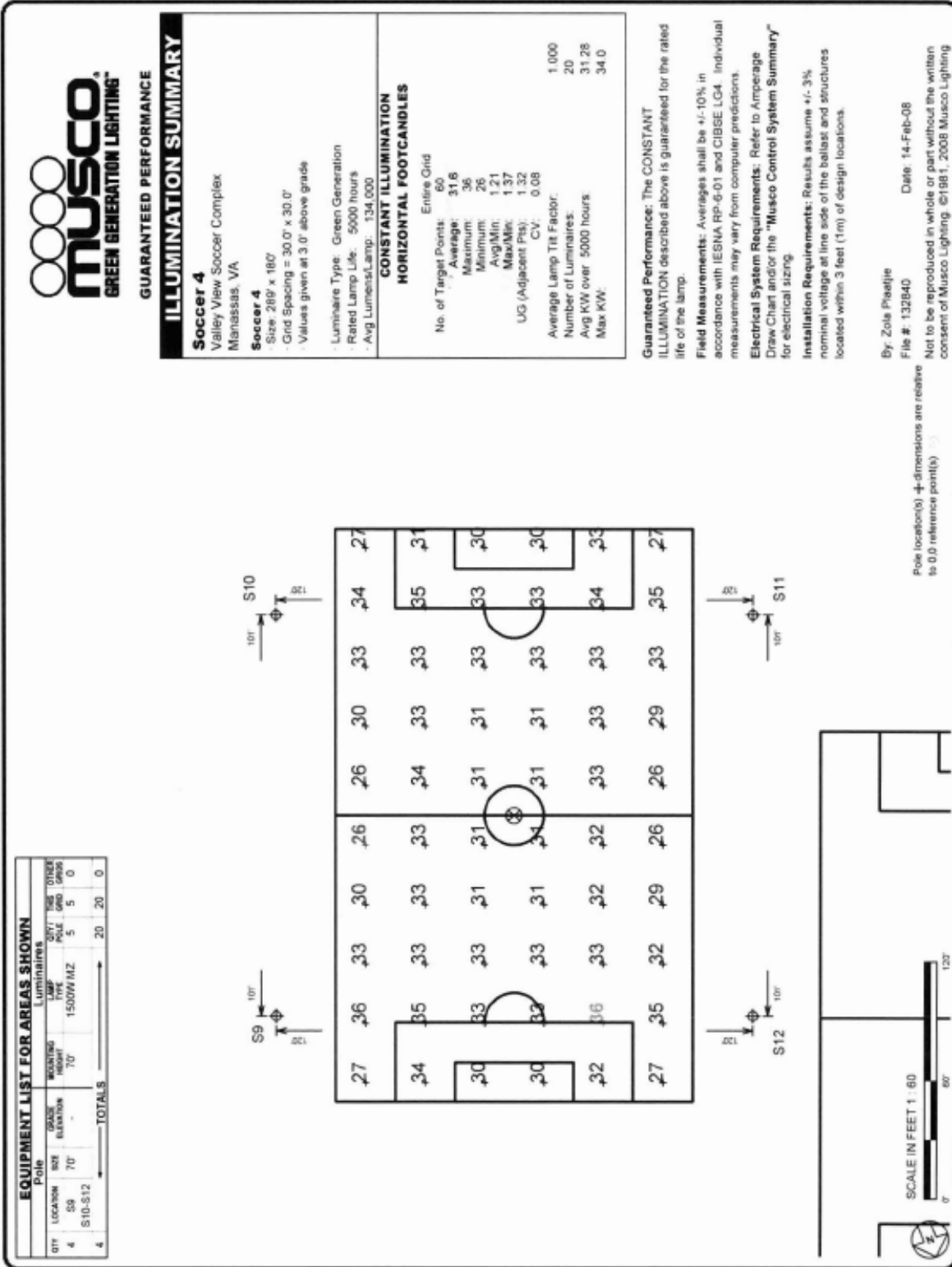
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Print Date (14-Feb-2008) & Time (13:12)

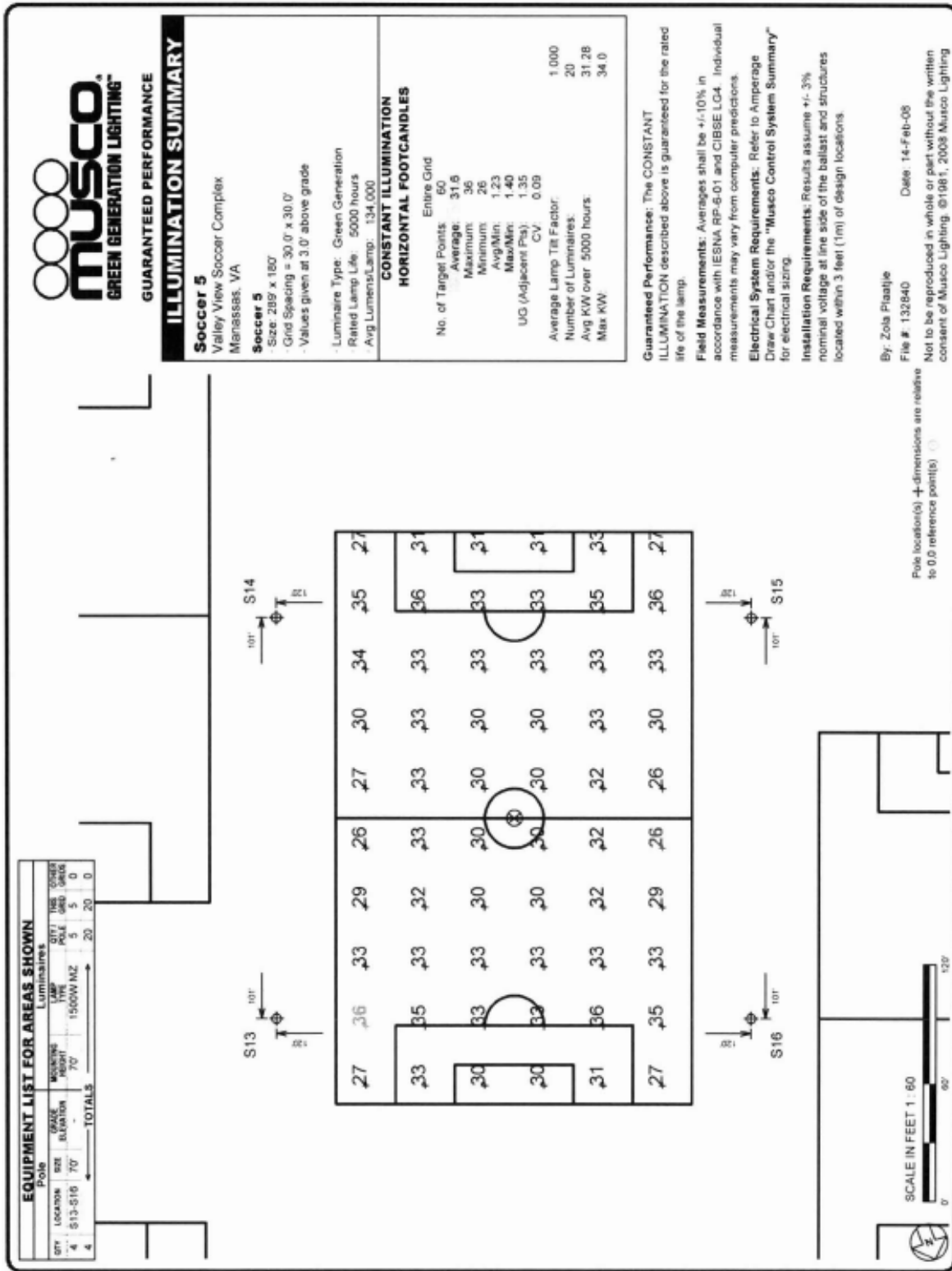
SCALE IN FEET : 60



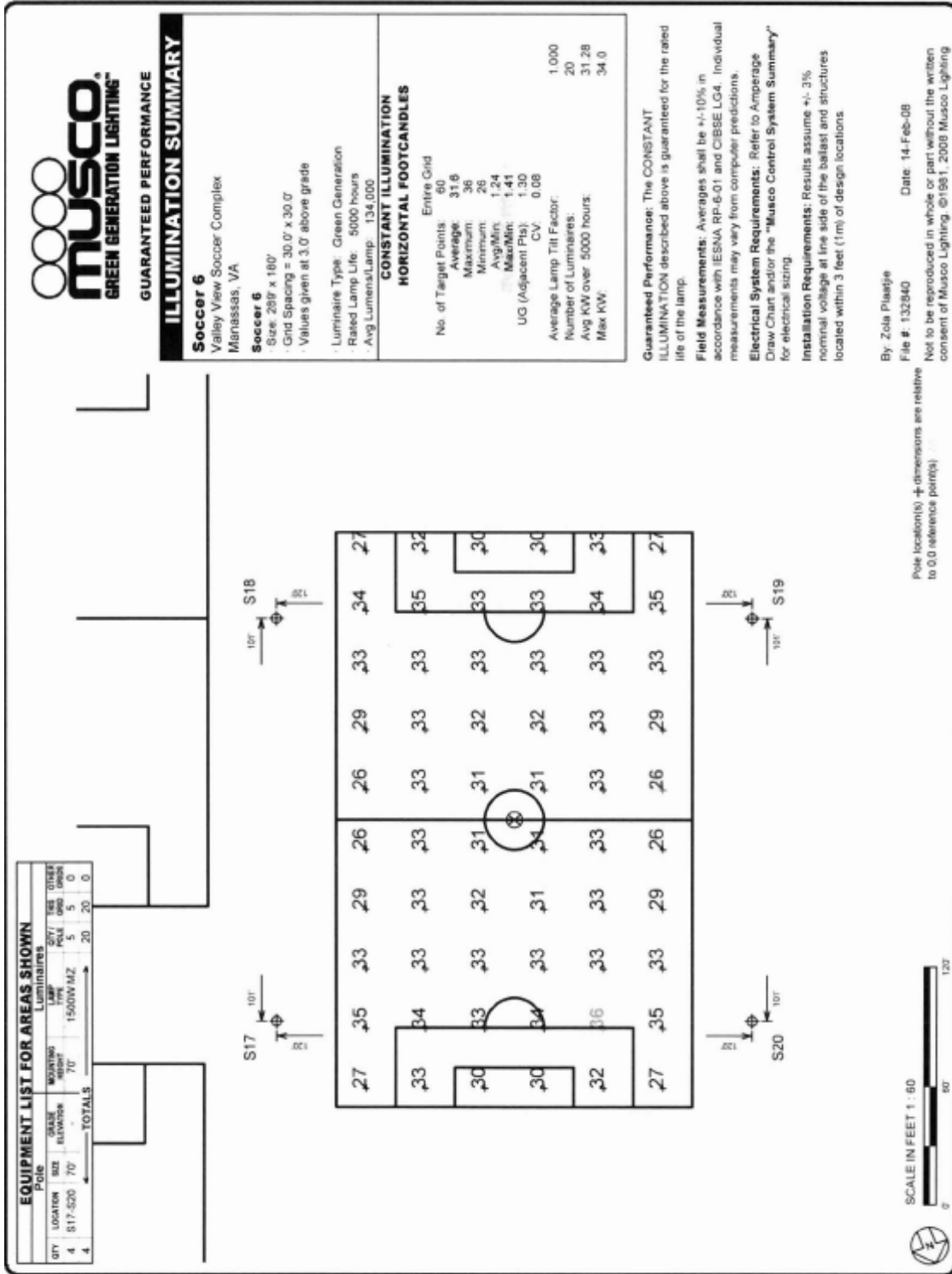
# Attachment C – Applicant’s Submission ILLUMINATION SUMMARY – SOCCER FIELD #4



# Attachment C – Applicant’s Submission ILLUMINATION SUMMARY – SOCCER FIELD #5



# Attachment C – Applicant’s Submission ILLUMINATION SUMMARY – SOCCER FIELD #6



# Attachment C – Applicant’s Submission EQUIPMENT LAYOUT



**MUSCO**  
GREEN GENERATION LIGHTING™

## EQUIPMENT LAYOUT

### Valley View Soccer Complex

Manassas, VA

**INCLUDES:**

- Soccer 1
- Soccer 2
- Soccer 3
- Soccer 4
- Soccer 5
- Soccer 6

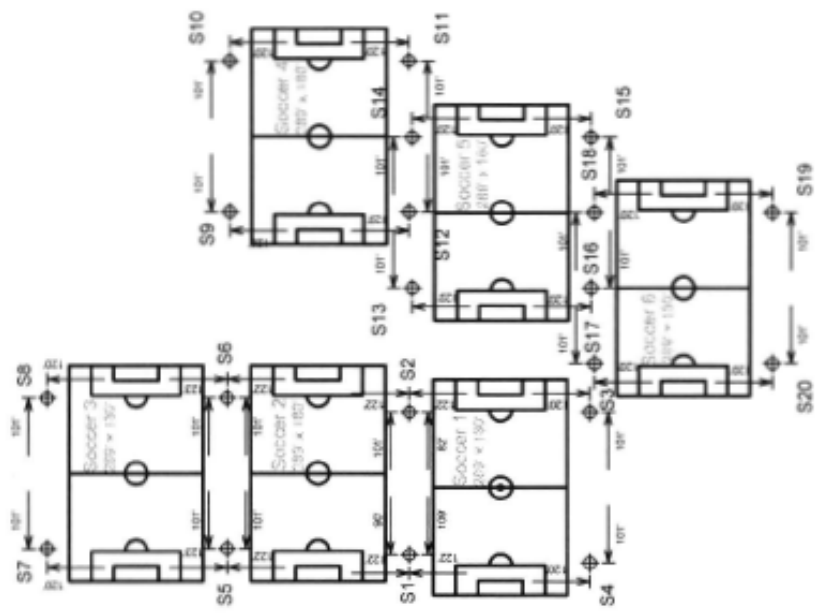
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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	POLE TYPE
4	S1-S2	70'	1500W MZ
16	S3-S4	70'	1500W MZ
20	S10-S20		
<b>TOTALS</b>			<b>120</b>

This structure utilizes a back to back mounting configuration.

SINGLE LUMINAIRE AMPERAGE DRAW CHART			
Ballast Specifications			
Line Amperage Per Luminaire			
(See notes)			
Single Phase Voltage	120	208	220
Max	2.77	3.14	3.37
Min	1.77	2.00	2.14



By: Zola Ptaszke  
File #: 132840  
Date: 14 Feb 08

Pole location(s) + dimensions are relative to 0.0 reference point(s)

