

MONUMENT
ACADEMY

4303 Pinehurst Circle
Monument, CO 80132

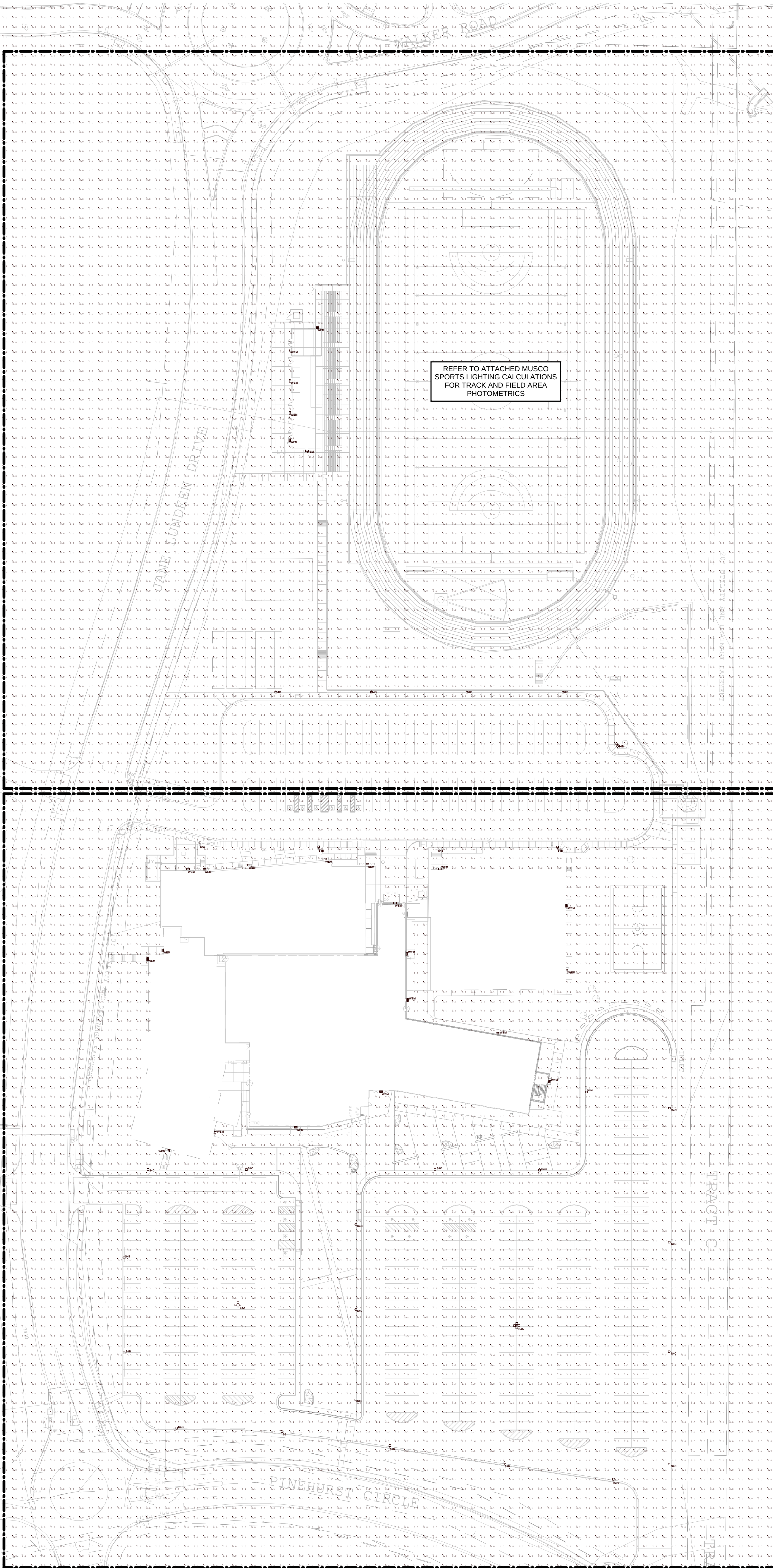
SITE DEVELOPMENT PLAN

PARKING LOT POLE BASE DIAGRAM
NO SCALE

- (2) Height. No freestanding light fixtures shall be mounted higher than 15 feet, except parking lot light fixtures which shall be mounted no higher than 20 feet unless an alternative lighting proposal is approved in accordance with this Code.

Please confirm that lighting will meet the following standards:

- (a) **Concealed or Shielded.** Light fixtures shall be arranged and positioned such that the light sources are concealed and fully shielded so that no direct light or reflection creates a nuisance or hazard to any adjacent ownership or right-of-way and that up-light, spill-light, glare, and unnecessary diffusion are minimized. Light fixtures, except as otherwise permitted herein, are required to be full cutoff as defined by the Illuminating Engineers Society of North America (IESNA) The cut-off angle of an exterior light source shall not exceed 90 degrees. Full cut-off fixtures may not be tilted or aimed in a manner that results in light distribution above the horizontal plane. The use of semi-cutoff or cutoff (as opposed to full cutoff) fixtures shall be permitted to illuminate areas other than parking lots provided the pole or mounting point is no more than 10' in height and the maximum lumen output does not exceed 1800 lumens per lamp.
- (b) **Non-Security Lighting During Non-Operating Hours.** Exterior lighting, including but not limited to floodlights used to light a building façade, shall be reduced, activated by motion sensor devices, or turned off during the principal use's non-operating hours. Lighting necessary for security shall not be subject to this provision.



1 SITE LIGHTING PLAN - OVERALL SITE
1" = 60'-0"

REVISION SCHEDULE		
REV	DESCRIPTION	DATE

OWNERSHIP OF INSTRUMENTS OF SERVICE:
ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY DESIGN PROFESSIONAL AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE DESIGN PROFESSIONAL. THE DESIGN PROFESSIONAL SHALL RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT THERETO.

CRP ARCHITECTS AIA
100 E. St. Vrain, Suite 300
Colorado Springs, Colorado 80903

SITE LIGHTING
PHOTOMETRICS

SCALE: 1" = 60'-0"

TRUE N.	PLAN N.	DATE:	07.27.2026
		DRAWN:	BMG
		CHECKED:	AM
		REVISED:	

me
engineers

M-E Engineers, Inc.
1122 Kelly Johnson Blvd, Ste 301
Colorado Springs, CO 80920
t. 719.536.0036 / f. 719.536.0037
www.me-engineers.com

Luminaire Schedule		
Tag	Qty	Description
50A	1	LED AREA LIGHT, FULL CUTOFF, 400W CCT, TYPE 3 DISTRIBUTION
50B	2	LED AREA LIGHT, FULL CUTOFF, 1 @ 90 DEGREE DISTRIBUTION, 400W CCT, TYPE 4 DISTRIBUTION
50C	16	LED AREA LIGHT, FULL CUTOFF, 400W CCT, TYPE 2 DISTRIBUTION WITH HOUSE SPEED
50D	12	LED AREA LIGHT, FULL CUTOFF, 400W CCT, TYPE 4 DISTRIBUTION
50EM	25	LED TRIANGLE/ROOF FULL CUTOFF WALLWASH

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SITE DEVELOPMENT PLAN

REVISION SCHEDULE		
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CRP ARCHITECTS AIA
100 E. St. Vrain, Suite 300
Colorado Springs, Colorado 80903

SITE LIGHTING PHOTOMETRICS

SCALE : 1" = 30'-0"

TRUE N.	PLAN N.	DATE:	07.27.2026
		DRAWN:	BMG
		CHECKED:	AM
		REVISED:	

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1125 kelly johnson blvd, ste 301
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www.me-engineers.com

ES2

Luminaire Schedule		
Tag	Qty	Description
50A	1	LED AREA LIGHT, FULL CUTOFF, 400W CCT, TYPE 3 DISTRIBUTION
50B	2	LED AREA LIGHT, FULL CUTOFF, 1 @ 80 COMPARISON, 400W CCT, TYPE 4 DISTRIBUTION
50C	16	LED AREA LIGHT, FULL CUTOFF, 400W CCT, TYPE 2 DISTRIBUTION WITH HOUSE SPEED
50C2	12	LED AREA LIGHT, FULL CUTOFF, 400W CCT, TYPE 2 DISTRIBUTION
50C3	25	LED TRIANGLE/ROOF FULL CUTOFF WALLWASH

MONUMENT
ACADEMY

4303 Pinehurst Circle
Monument, CO 80132

SITE DEVELOPMENT PLAN

REVISION SCHEDULE		
REV	DESCRIPTION	DATE

OWNERSHIP OF INSTRUMENTS OF SERVICE:

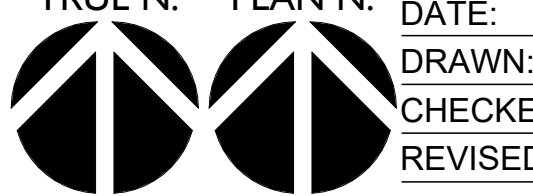
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SITE LIGHTING PHOTOMETRICS

SCALE : 1" = 30'-0"

TRUE N.	PLAN N.	DATE:	07.27.2026
		DRAWN:	BMG
		CHECKED:	AM
		REVISED:	



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1125 kelly johnson blvd. ste 301

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ES3

Monument Academy Soccer East Campus
Colorado Springs,CO

LIGHTING SYSTEM

Structure/Fixture Summary						
Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Load	Circuit
S1-S2	80'	80'	1	TLC-LED-1200	1.17 kW	B
		80'	1	TLC-LED-550	0.54 kW	B
		80'	6	TLC-LED-1200	7.02 kW	A
		16'	2	TLC-BT-575	1.15 kW	B
S3-S4	80'	80'	2	TLC-LED-1200	2.34 kW	B
		80'	5	TLC-LED-1200	5.85 kW	A
		23'	2	TLC-BT-575	1.15 kW	B
4			38		38.44 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Football	25.74 kW	22
B	Egress	12.70 kW	16

Fixture Type Summary								
Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	B	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC-LED-1200	A	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	22
TLC-LED-1200	B	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	6
TLC-LED-550	B	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	2

Single Fixture Amperage Draw Chart								
Driver Specifications (.90 min power factor)			Line Amperage Per Fixture (max draw)					
Single Phase Voltage			208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)
TLC-LED-1200			6.9	6.5	6.0	5.2	4.2	3.0
TLC-BT-575			3.3	3.2	2.9	2.5	2.0	1.5
TLC-LED-550			3.2	3.0	2.8	2.4	1.9	1.4

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Bleacher	Horizontal	11.99	8	15	1.75	1.44	A,B	38
Bleacher Egress	Horizontal	7.27	5	9	1.79	1.42	B	16
Football	Horizontal Illuminance	35.28	30	43	1.43	1.18	A,B	38
Road Spill @ 3Ft	Horizontal	0.10	0	0	84.42	28.09	A,B	38
Road Spill @ 5ft	Max Candela (by Fixture)	7325.72	500	33557	67.08	14.64	A,B	38
Road Spill @ 5ft	Max Vertical Illuminance Metric	0.21	0	1	63.04	19.76	A,B	38
Soccer	Horizontal Illuminance	34.97	30	42	1.39	1.16	A,B	38
Track	Horizontal Illuminance	5.36	1	10	9.48	4.84	B	16
Track Spill @ 3ft.	Horizontal Illuminance	0.0096	0.00	0.03	314.911	88.257	A,B	38
Track Spill @ 5ft.	Max Candela Metric	1282.9901	9.41	4401.46	467.807	136.362	A,B	38
Track Spill @ 5ft.	Max Vertical Illuminance Metric	0.0245	0.00	0.08	501.210	157.175	A,B	38

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

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

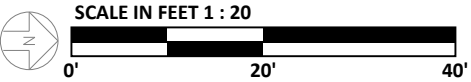
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S1-S2	80'	-	80'	TLC-LED-1200	7	7	0
				80'	TLC-LED-550	1*	1	0
				15.5'	TLC-BT-575	2	2	0
2	S3-S4	80'	-4'	76'	TLC-LED-1200	7	7	0
				18.5'	TLC-BT-575	2	2	0
4	Totals					38	38	0

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S1-S2	80'	-	80'	TLC-LED-1200	7	7	0
				80'	TLC-LED-550	1*	1	0
				15.5'	TLC-BT-575	2	2	0
2	S3-S4	80'	-4'	76'	TLC-LED-1200	7	7	0
				18.5'	TLC-BT-575	2	2	0
4	Totals					38	38	0

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



ENGINEERED DESIGN By: L. Schlee • File #249100D • 17-Apr-26

Colorado Springs, CO

Name: Bleacher Size: 360' x 195' Spacing: 10.0' x 10.0'

MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	11.99
Maximum:	15
Minimum:	8
Avg/Min:	1.44
Max/Min:	1.75
UG (adjacent pts):	1.25
CU:	0.01
No. of Points:	38
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	38
Total Load:	38.44 kW

Installation Requirements: Results assume $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

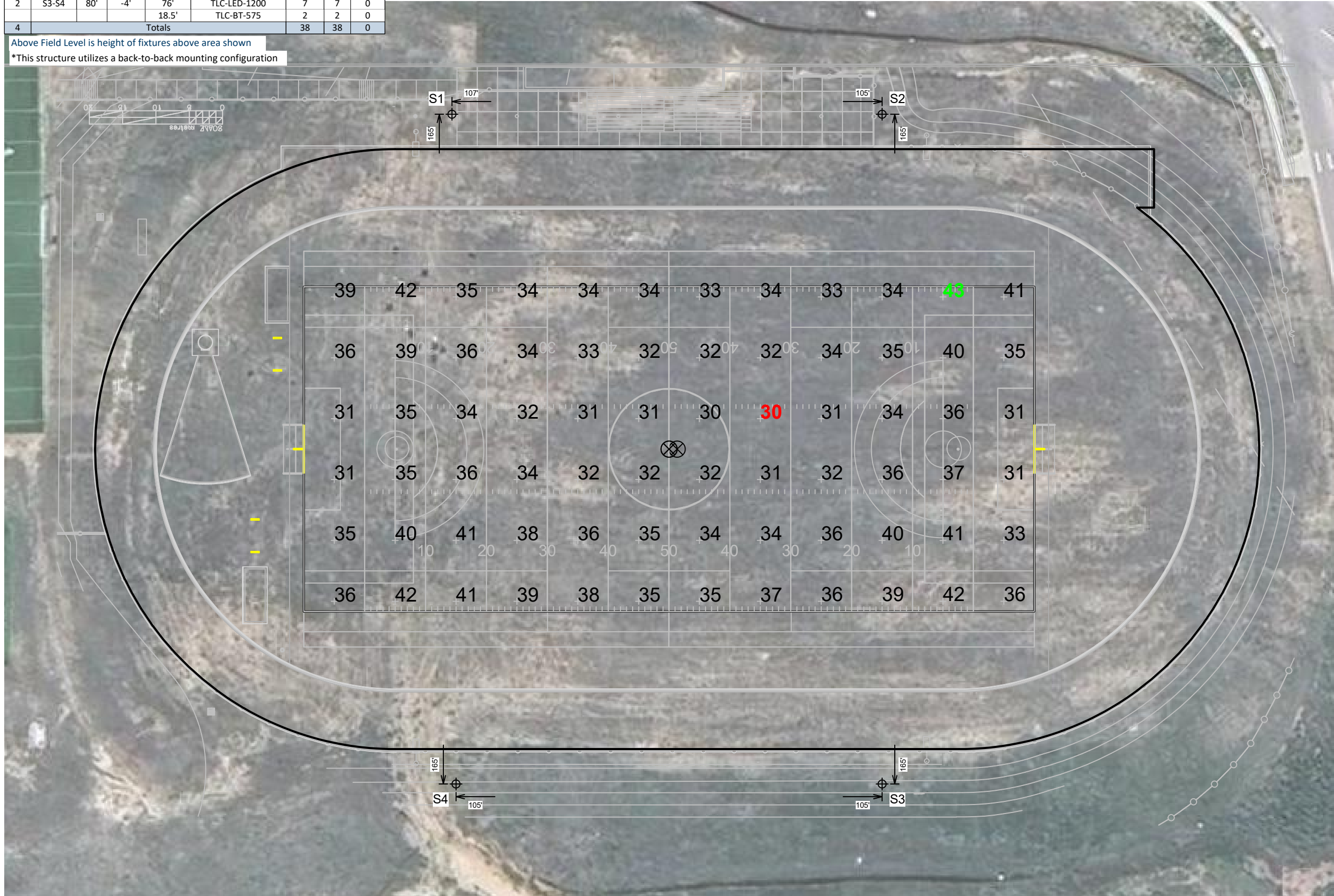


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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S1-S2	80'	-	80'	TLC-LED-1200	7	7	0
				80'	TLC-LED-550	1*	1	0
				15.5'	TLC-BT-575	2	2	0
2	S3-S4	80'	-4'	76'	TLC-LED-1200	7	7	0
				18.5'	TLC-BT-575	2	2	0
4	Totals					38	38	0

Above Field Level is height of fixtures above area shown
*This structure utilizes a back-to-back mounting configuration



Monument Academy Soccer East Campus

Colorado Springs,CO

Grid Summary	
Name:	Football
Size:	360' x 160'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
Entire Grid	
Scan Average:	35.28
Maximum:	43
Minimum:	30
Avg/Min:	1.18
Max/Min:	1.43
UG (adjacent pts):	1.24
CU:	0.48
No. of Points:	72
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	38
Total Load:	38.44 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

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

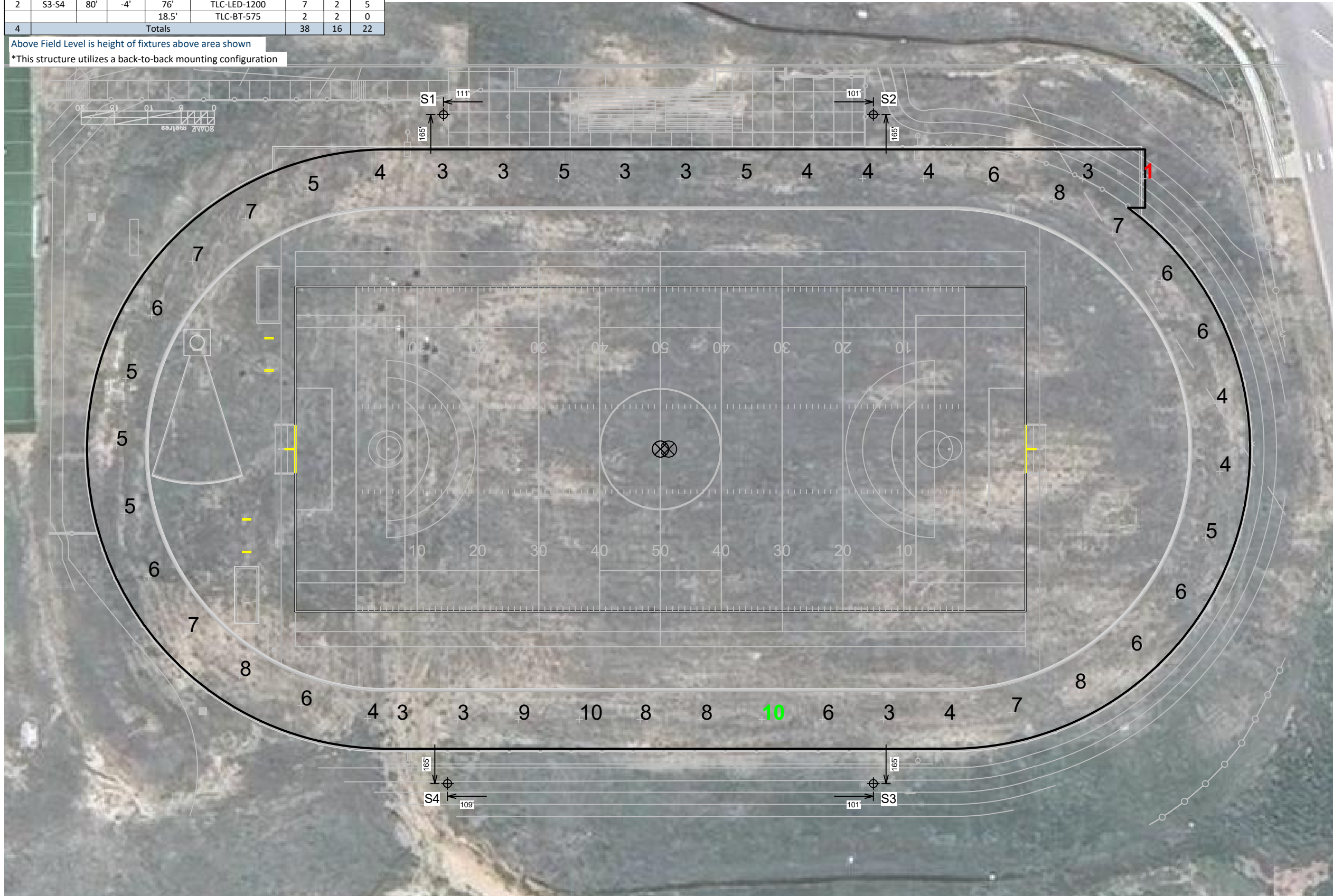
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S1-S2	80'	-	80'	TLC-LED-1200	7	1	6
				80'	TLC-LED-550	1*	1	0
				15.5'	TLC-BT-575	2	2	0
2	S3-S4	80'	-4'	76'	TLC-LED-1200	7	2	5
				18.5'	TLC-BT-575	2	2	0
4	Totals					38	16	22

Above Field Level is height of fixtures above area shown

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



Monument Academy Soccer East Campus

Colorado Springs,CO

Grid Summary	
Name:	Track
Size:	Irregular
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	5.36
Maximum:	10
Minimum:	1
Avg/Min:	4.84
Max/Min:	9.48
UG (adjacent pts):	0.00
CU:	0.15
No. of Points:	46
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	16
Total Load:	12.70 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated 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 driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S1-S2	80'	-	80'	TLC-LED-1200	7	7	0
				80'	TLC-LED-550	1*	1	0
				15.5'	TLC-BT-575	2	2	0
2	S3-S4	80'	-4'	76'	TLC-LED-1200	7	7	0
				18.5'	TLC-BT-575	2	2	0
4	Totals					38	38	0

Above Field Level is height of fixtures above area shown

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



Monument Academy Soccer East Campus

Colorado Springs,CO

Grid Summary	
Name:	Road Spill @ 3Ft
Spacing:	30.0' x 10.0'
Height:	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	0.10
Maximum:	0
Minimum:	0
Avg/Min:	28.09
Max/Min:	84.42
UG (adjacent pts):	0.00
CU:	0.00
No. of Points:	29
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	38
Total Load:	38.44 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

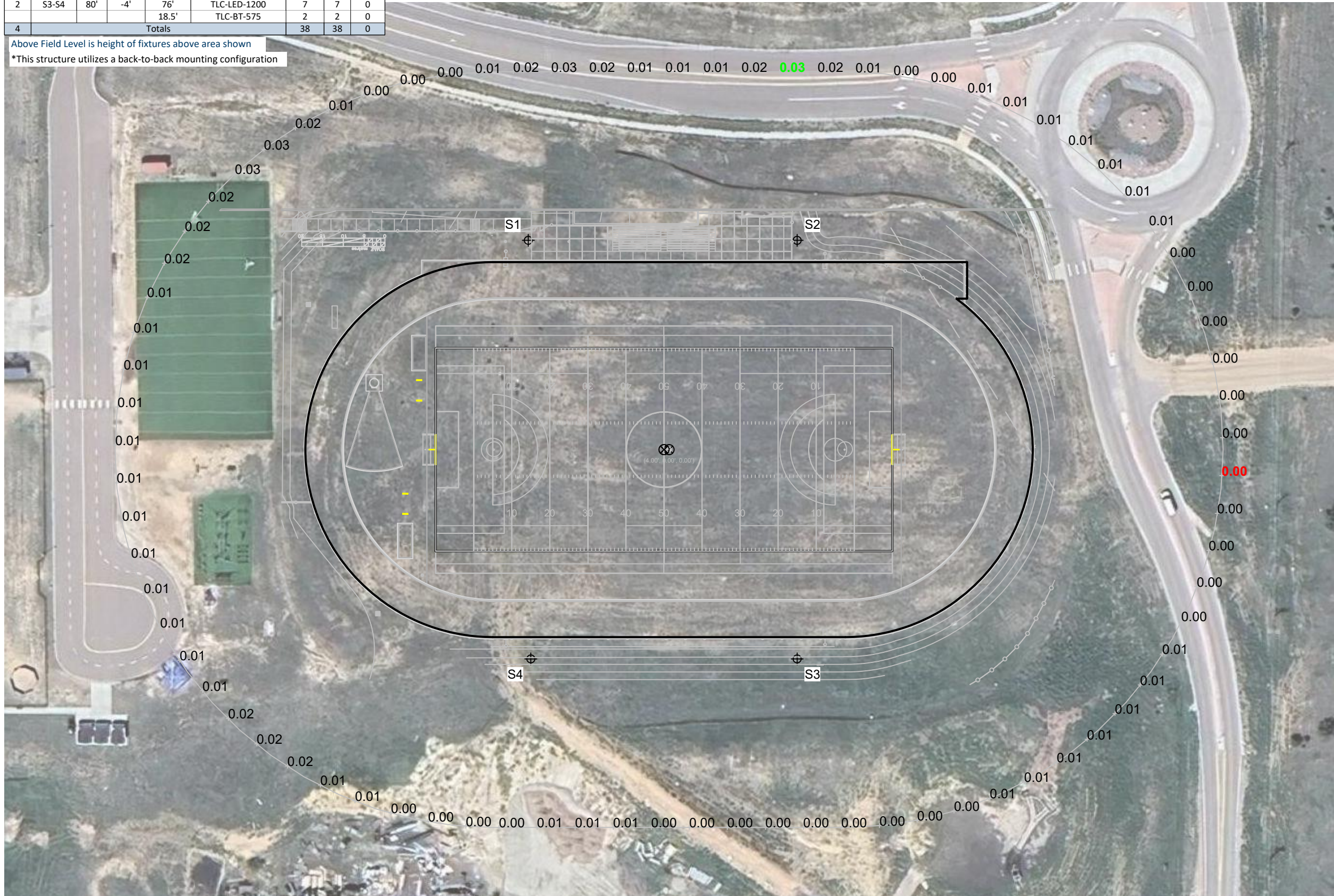
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S1-S2	80'	-	80'	TLC-LED-1200	7	7	0
				80'	TLC-LED-550	1*	1	0
				15.5'	TLC-BT-575	2	2	0
2	S3-S4	80'	-4'	76'	TLC-LED-1200	7	7	0
				18.5'	TLC-BT-575	2	2	0
4	Totals					38	38	0

Above Field Level is height of fixtures above area shown
*This structure utilizes a back-to-back mounting configuration



Monument Academy Soccer East Campus

Colorado Springs,CO

Grid Summary

Name: Track Spill @ 3ft.

Spacing: 30.0'

Height: 3.0' above grade

Illumination Summary	
	INITIAL HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	0.0096
Maximum:	0.03
Minimum:	0.00
CU:	0.00
No. of Points:	81
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	38
Total Load:	38.44 kW

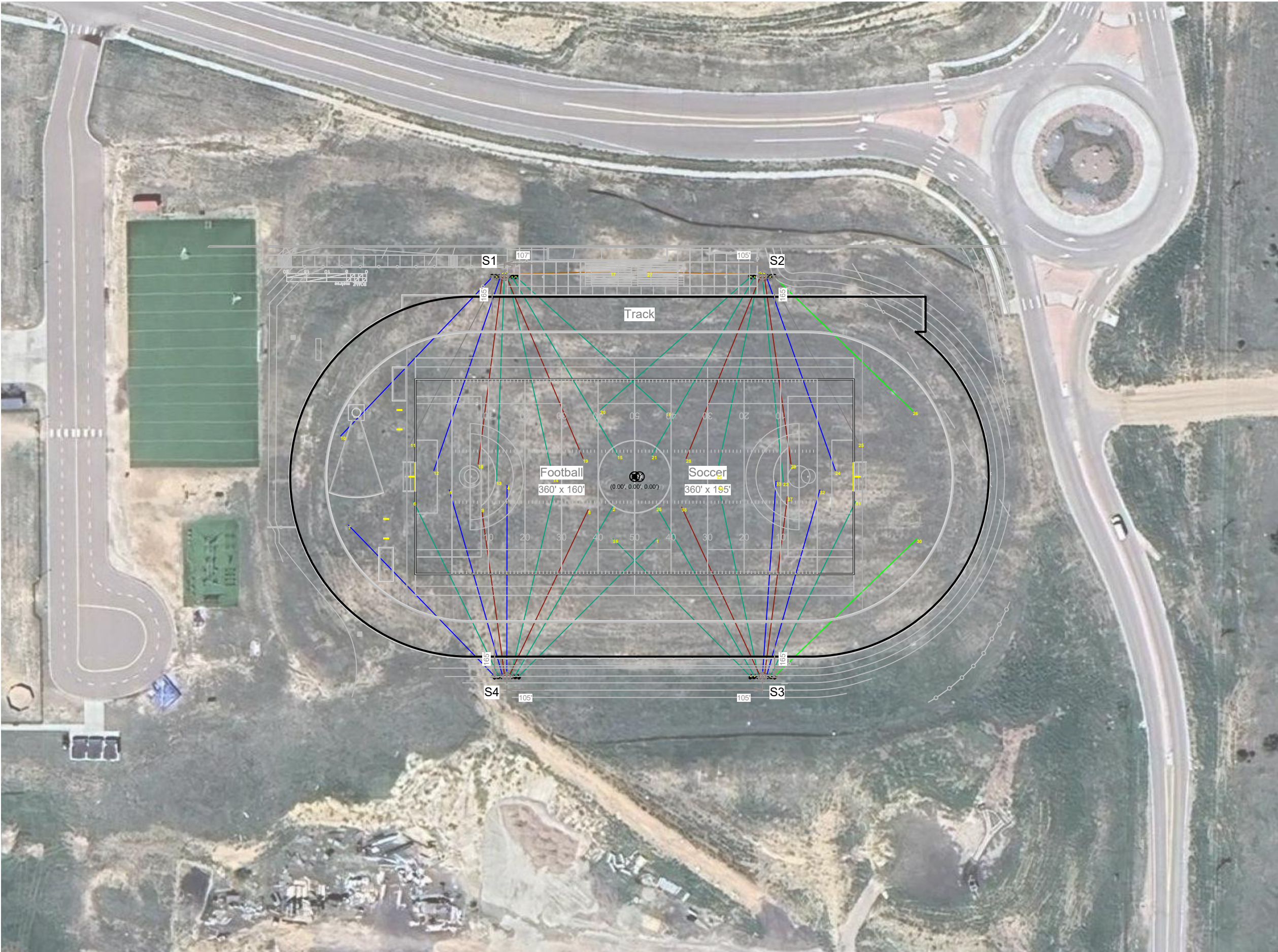
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Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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





Monument Academy Soccer East Campus

Colorado Springs,CO

Equipment Layout

INCLUDES:

- Football
- Soccer
- 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 driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown

Structure				Fixtures		
QTY	STRUCTURE ID	SIZE	GLOBAL ELEVATION	ABOVE GLOBAL LEVEL	FIXTURE TYPE	QTY/POLE
2	S1-S2	80'	-	80'	TLC-LED-1200	7
				80'	TLC-LED-550	1*
				15.5'	TLC-BT-575	2
2	S3-S4	80'	-4'	76'	TLC-LED-1200	7
				18.5'	TLC-BT-575	2
4	Totals					38

*This structure utilizes a back-to-back mounting configuration
Above Global Level is height of fixtures above design (0,0,0)

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4



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

PRELIMINARY FOUNDATION AND POLE ASSEMBLY DRAWING

TABLE 1: POLE ASSEMBLY			
POLE ID	POLE HEIGHT ft (m)	# OF LUMINAIRES	ASSEMBLED POLE WEIGHT ³ lb (kg)
S1	80 (24.4)	8	2431 (1103)
S2	80 (24.4)	8	2431 (1103)
S3	80 (24.4)	7	2362 (1071)
S4	80 (24.4)	7	2362 (1071)

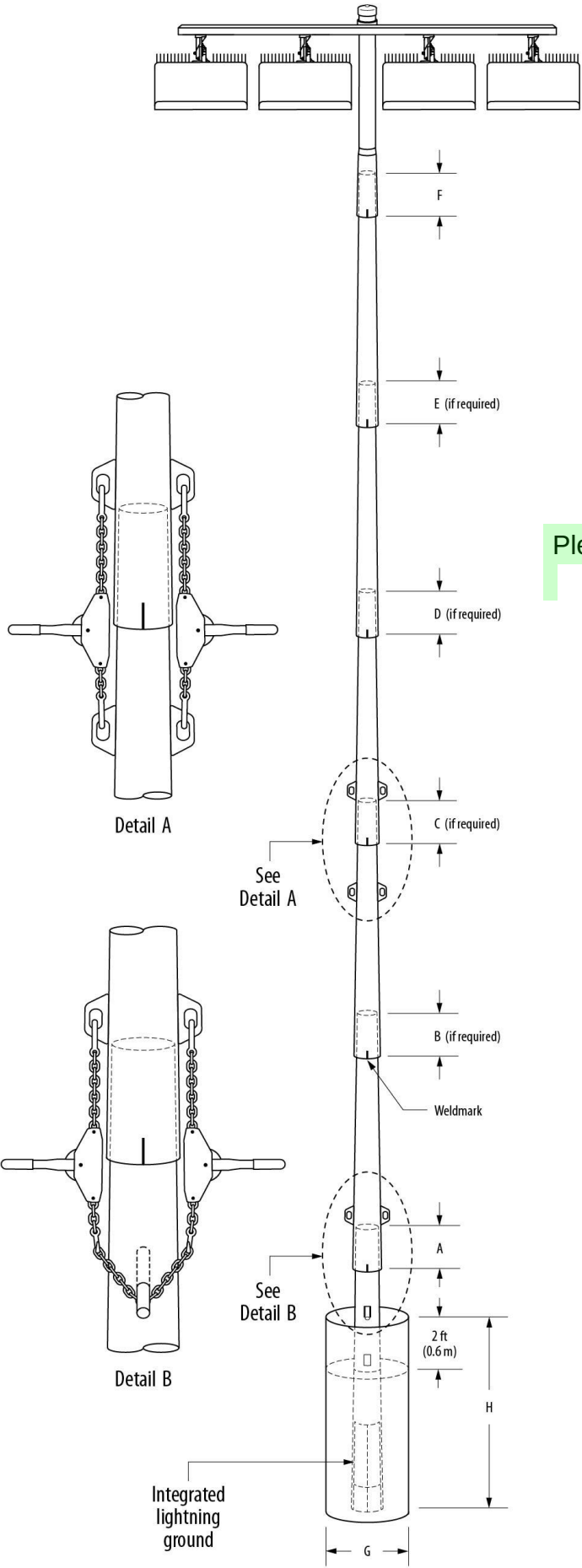
Pole Assembly Notes:

- Steel pole should overlap concrete base and be seated tight with 1 1/2 ton come-alongs (contractor provided).
- Align weldmarks on steel sections before assembling.
- Assembled pole weight includes steel sections, crossarms, luminaires, and electrical components enclosures. If pole has stamped structural design then use pole weight (listed as vertical force) on stamped structural design document.
- Section overlap must be pulled together until tight. Overlap measurement should be +/- 6 in (150 mm).
- This document is not intended for use as an assembly instruction. See *Installation Instructions: Light-Structure System™ Lighting System* for complete assembly procedure.

TABLE 2: FOUNDATION DETAILS							
POLE ID	CONCRETE BASE WEIGHT lb(kg)	BURIAL INFORMATION ^{3,4}		CONCRETE BACKFILL ^{1,2} yd ³ (m ³)	CUT BASE	LIGHTNING GROUND ⁵	
		G in (mm)	H ft (m)			TYPE	SUPPLEMENTAL INSTRUCTION
S1	3780 (1715)	30 (762)	14 (4.3)	1.6 (1.2)	NO	INTEGRATED ⁶	N/A
S2	3780 (1715)	30 (762)	14 (4.3)	1.6 (1.2)	NO	INTEGRATED ⁶	N/A
S3	3780 (1715)	30 (762)	14 (4.3)	1.6 (1.2)	NO	INTEGRATED ⁶	N/A
S4	3780 (1715)	30 (762)	14 (4.3)	1.6 (1.2)	NO	INTEGRATED ⁶	N/A

Foundation Notes:

- Concrete backfill is calculated to 2 ft (0.6m) below grade (no overage included). Top 2 ft (0.6m) to be class 5 soil compacted to 95% density of surrounding undisturbed soil unless otherwise specified in stamped structural design.
- Concrete backfill required 3000 lb/in² (20 MPa) minimum.
- Foundation design per 2021 IBC, 115 mph, exposure category C, variation STD (Risk Category II).
- Assumes IBC class 5 soils.
- Standard bases include integrated lightning protection. If bases are cut, supplemental lightning protection is required. Contact Musco for materials and instruction.
- Lightning protection is a manufacturer installed concrete encased electrode and connector. Ground connection is made when concrete base is installed and footing is poured. No additional steps required.



Please confirm that recreation area lighting will meet the following standards:

- (b) **Cut-Off Angle.** The cut-off angle from a lighting source that illuminates an outdoor recreational use may exceed 90 degrees provided the light source is shielded to prevent light and glare from spilling to adjacent residential properties.
- (c) **Hours of Use.** Exterior lighting for an outdoor recreational use shall be extinguished no later than 10:00 p.m. or immediately after the conclusion of the final event of the day, whichever is later.