

Foley Soccer Complex Phase 2

Foley, AL

Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
S41-S42	70'	70'	6	TLC-LED-1200	7.02 kW	A
S43-S44	70'	70'	2	TLC-LED-1500	2.82 kW	B
		70'	4	TLC-LED-1200	4.68 kW	B
		70'	6	TLC-LED-1200	7.02 kW	A
S45	70'	70'	2	TLC-LED-550	1.08 kW	E
		70'	6	TLC-LED-1200	7.02 kW	B
S46	70'	70'	6	TLC-LED-1200	7.02 kW	B
S47-S48	70'	70'	6	TLC-LED-1200	7.02 kW	C
S49-S50	70'	70'	2	TLC-LED-1500	2.82 kW	D
		70'	4	TLC-LED-1200	4.68 kW	D
		70'	6	TLC-LED-1200	7.02 kW	C
S51-S52	70'	70'	2	TLC-LED-550	1.08 kW	E
		70'	6	TLC-LED-1200	7.02 kW	D
12			102		117.48 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Field 1	28.08 kW	24
B	Field 2	29.04 kW	24
C	Field 3	28.08 kW	24
D	Field 4	29.04 kW	24
E	Parking	3.24 kW	6

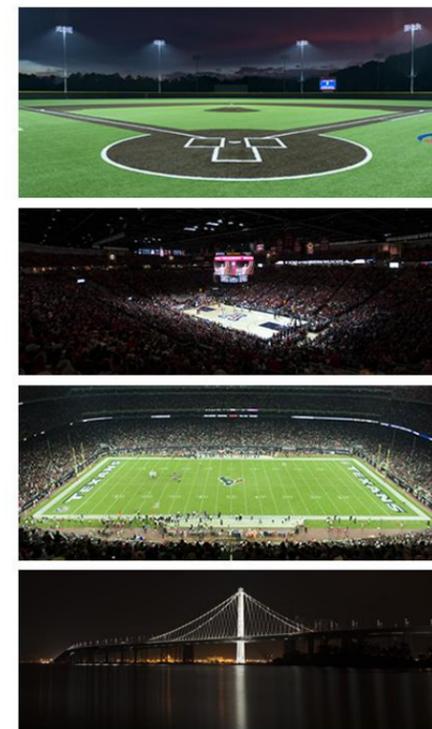
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	88
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	8
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	6

Single Luminaire Amperage Draw Chart							
Driver 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							
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Field 1	Horizontal Illuminance	31.76	24	44	1.85	1.33	A	24
Field 1 Spill	Horizontal Illuminance	0.0171	0.00	0.06	73.625	21.202	A	24
Field 1 Spill	Max Vertical Illuminance Metric	0.0529	0.00	0.15	36.822	12.833	A	24
Field 1 Spill Cd	Max Candela Metric	1522.9529	272.83	4206.97	15.420	5.582	A	24
Field 2	Horizontal Illuminance	31.62	22	42	1.89	1.41	B	24
Field 2 Spill	Horizontal Illuminance	0.0222	0.00	0.08	91.316	26.849	B	24
Field 2 Spill	Max Vertical Illuminance Metric	0.0669	0.00	0.18	40.919	15.206	B	24
Field 2 Spill Cd	Max Candela Metric	1751.1927	243.68	3832.06	15.726	7.186	B	24
Field 3	Horizontal Illuminance	31.94	24	43	1.81	1.35	C	24
Field 3 Spill	Horizontal Illuminance	0.0184	0.00	0.06	52.338	15.608	C	24
Field 3 Spill	Max Vertical Illuminance Metric	0.0561	0.01	0.16	28.488	9.932	C	24
Field 3 Spill Cd	Max Candela Metric	1497.6366	309.56	3762.44	12.154	4.838	C	24
Field 4	Horizontal Illuminance	31.82	23	42	1.81	1.37	D	24
Field 4 Spill	Horizontal Illuminance	0.0234	0.00	0.08	64.866	19.761	D	24
Field 4 Spill	Max Vertical Illuminance Metric	0.0699	0.01	0.17	26.981	11.216	D	24
Field 4 Spill Cd	Max Candela Metric	1716.9773	209.84	3873.73	18.461	8.183	D	24
Parking	Horizontal	3.88	2	7	4.11	2.39	E	6

From Hometown to Professional



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Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S41-S42	70'	-	70'	TLC-LED-1200	6	6	0
2	S43-S44	70'	-	70'	TLC-LED-1200	6/4*	6	4
				70'	TLC-LED-1500	2*	0	2
4	Totals					36	24	12

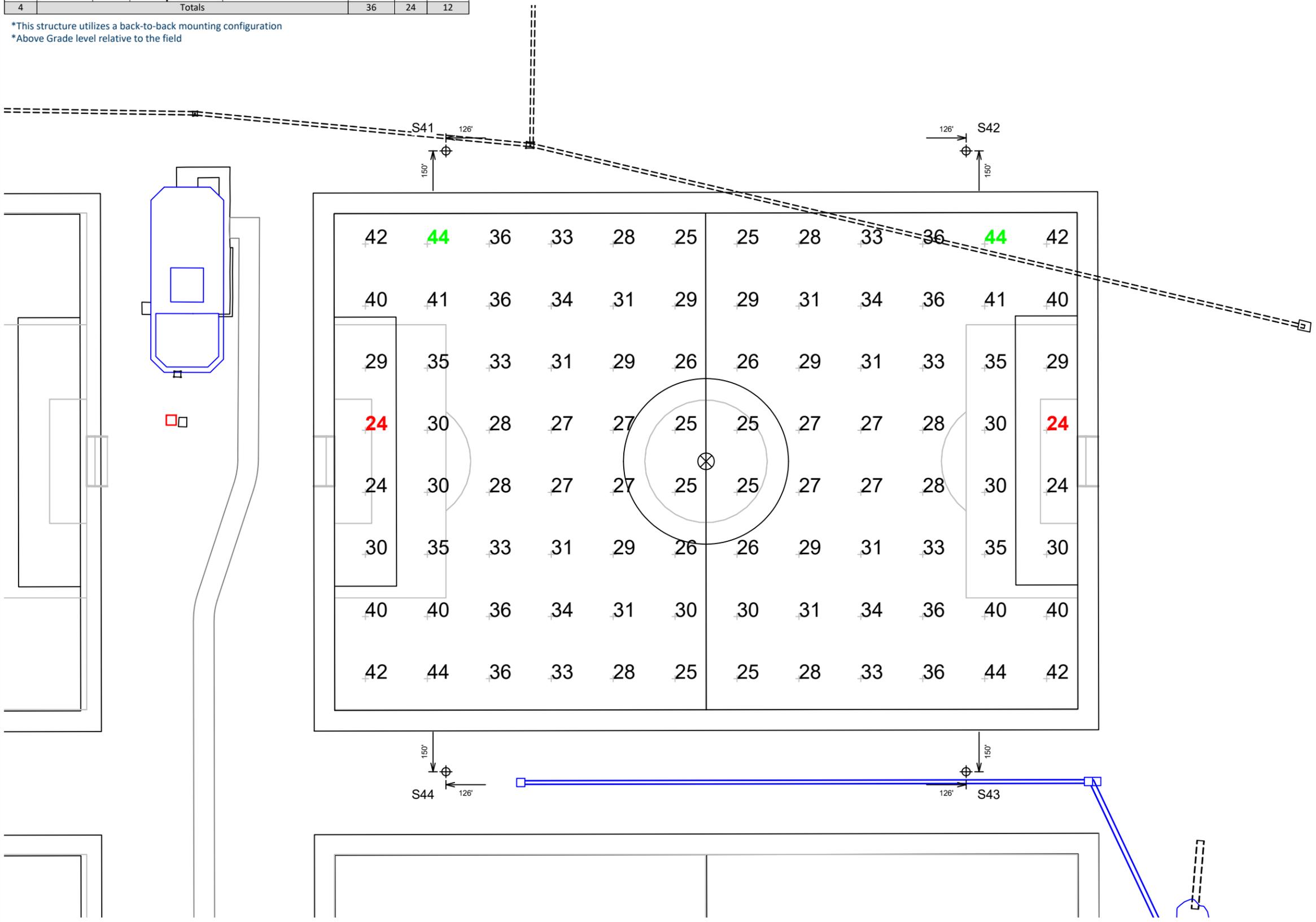
*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field

Foley Soccer Complex Phase 2 Foley, AL

Grid Summary	
Name	Field 1
Size	360' x 240'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average	30
Scan Average	31.76
Maximum	44
Minimum	24
Avg/Min	1.33
Guaranteed Max/Min	2.5
Max/Min	1.85
UG (adjacent pts)	1.36
CU	0.76
No. of Points	96
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	24
Total Load	28.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.
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.



SCALE IN FEET 1 : 50
 0' 50' 100'
 ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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

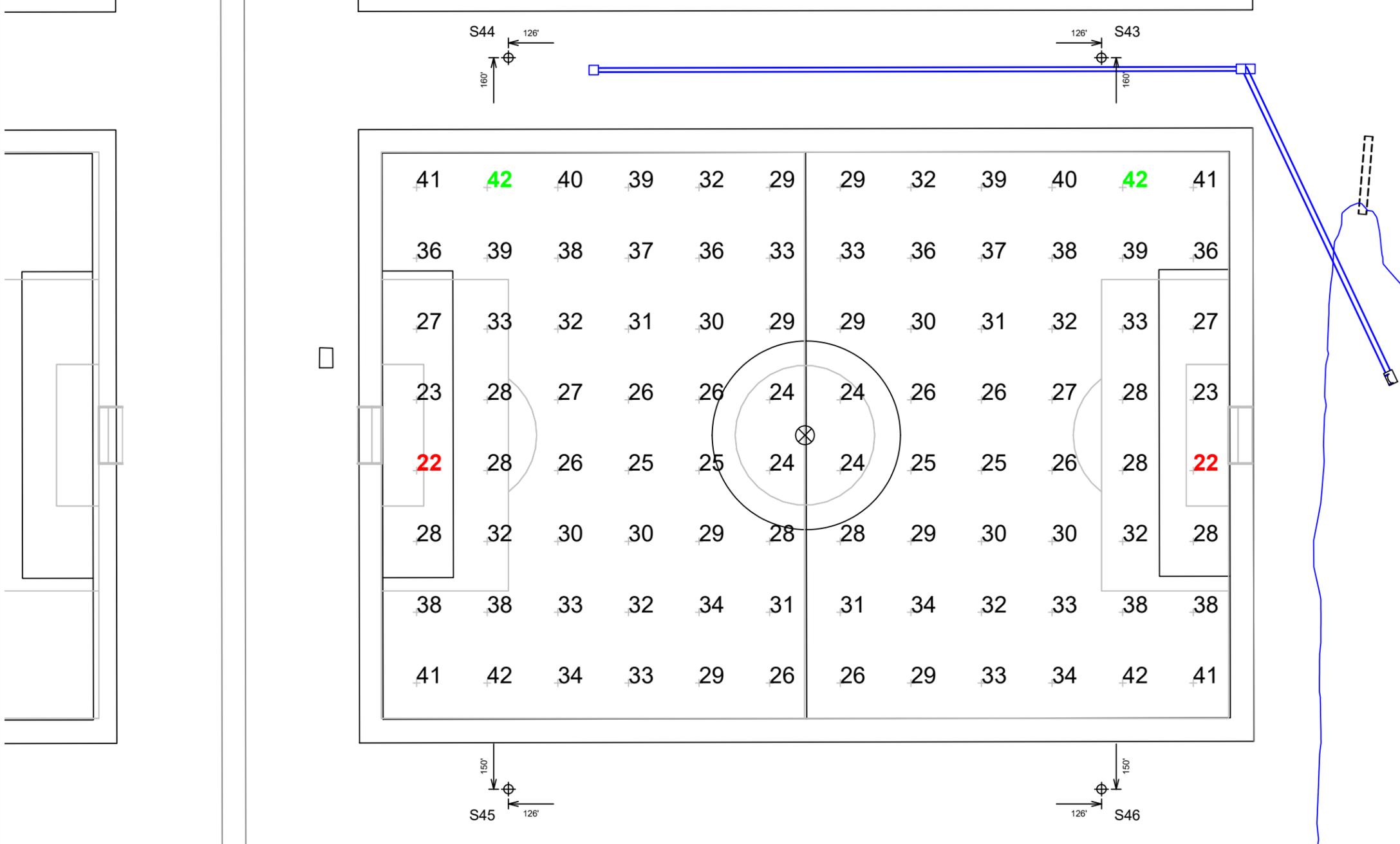


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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S43-S44	70'	-	70'	TLC-LED-1200	6/4*	4	6
				70'	TLC-LED-1500	2*	2	0
1	S45	70'	-	70'	TLC-LED-1200	6	6	0
				70'	TLC-LED-550	2*	0	2
1	S46	70'	-	70'	TLC-LED-1200	6	6	0
4	Totals					38	24	14

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field



Foley Soccer Complex Phase 2

Grid Summary	
Name	Field 2
Size	360' x 240'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average	30
Scan Average	31.62
Maximum	42
Minimum	22
Avg/Min	1.41
Guaranteed Max/Min	2.5
Max/Min	1.89
UG (adjacent pts)	1.35
CU	0.73
No. of Points	96
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	24
Total Load	29.04 kW

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 0' 50' 100'
 ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S47-S48	70'	-	70'	TLC-LED-1200	6	6	0
2	S49-S50	70'	-	70'	TLC-LED-1200	6/4*	6	4
				70'	TLC-LED-1500	2*	0	2
4	Totals					36	24	12

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field

Foley Soccer Complex Phase 2

Foley, AL

Grid Summary	
Name	Field 3
Size	360' x 240'
Spacing	30.0' x 30.0'
Height	3.0' above grade

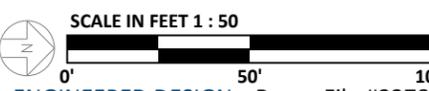
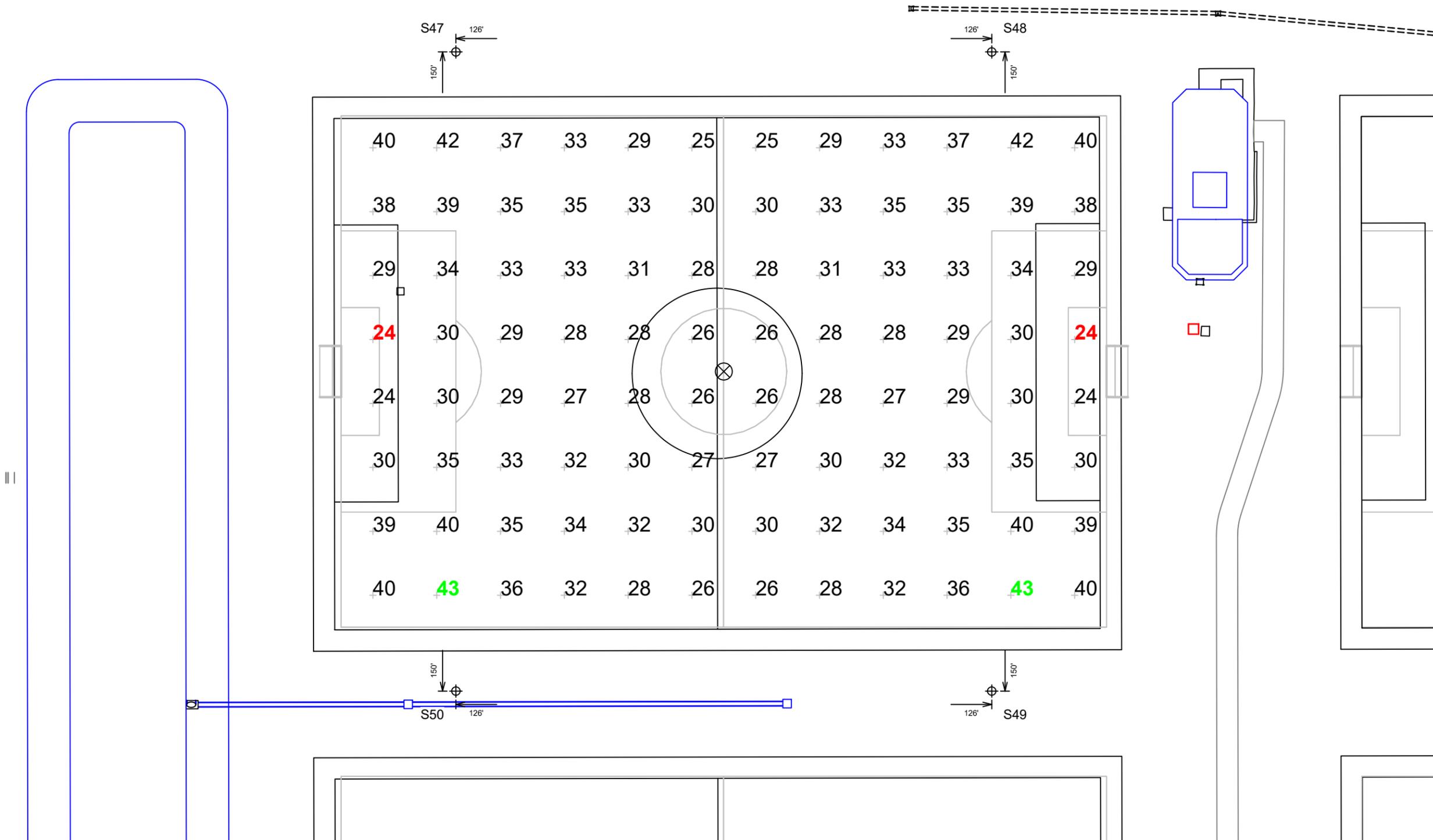
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average	30
Scan Average	31.94
Maximum	43
Minimum	24
Avg/Min	1.35
Guaranteed Max/Min	2.5
Max/Min	1.81
UG (adjacent pts)	1.33
CU	0.76
No. of Points	96
LUMINAIRE INFORMATION	
Applied Circuits	C
No. of Luminaires	24
Total Load	28.08 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.



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

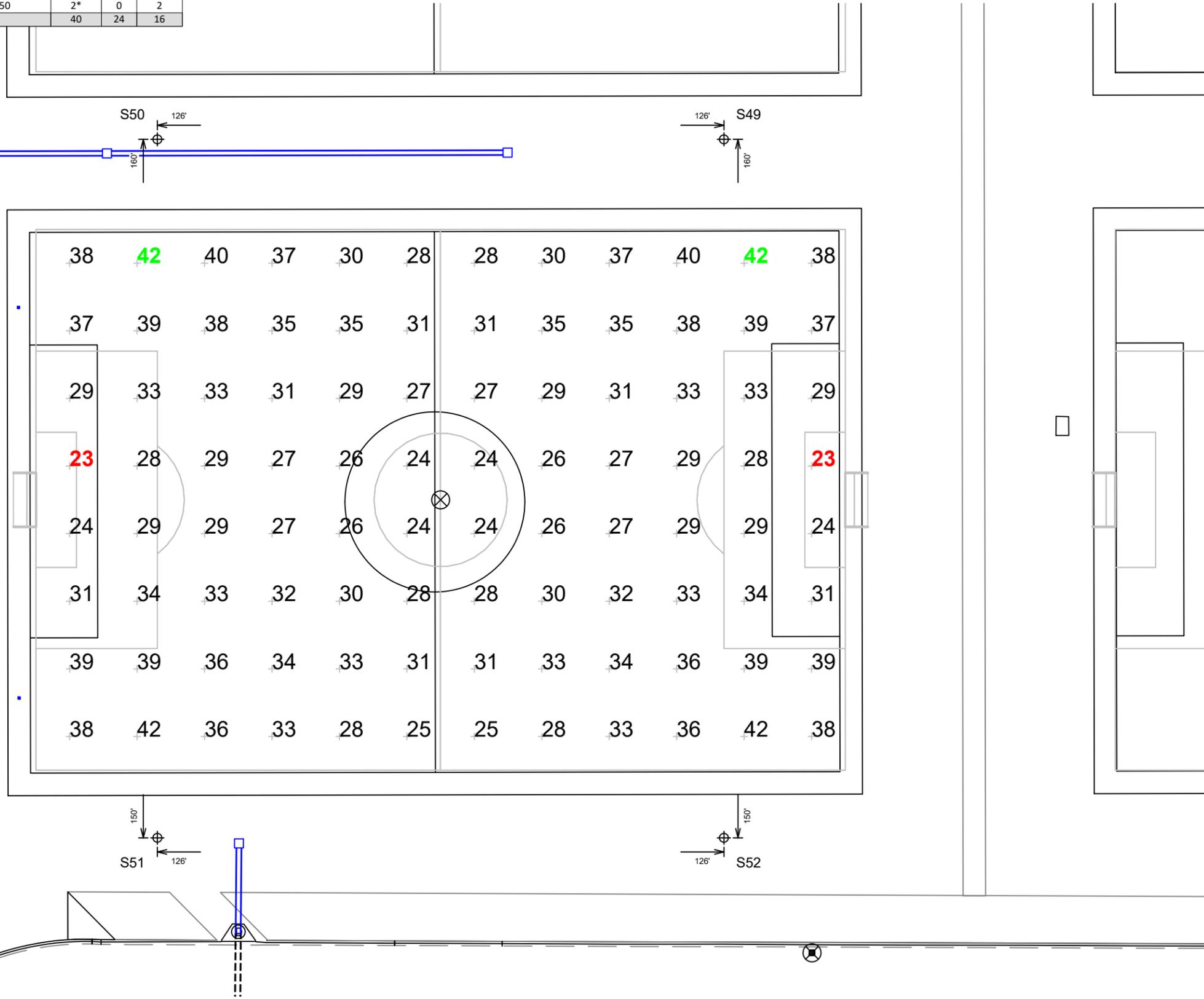


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Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S49-S50	70'	-	70'	TLC-LED-1200	6/4*	4	6
				70'	TLC-LED-1500	2*	2	0
2	S51-S52	70'	-	70'	TLC-LED-1200	6	6	0
				70'	TLC-LED-550	2*	0	2
4	Totals					40	24	16

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field



Foley Soccer Complex Phase 2

Grid Summary	
Name	Field 4
Size	360' x 240'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average	30
Scan Average	31.82
Maximum	42
Minimum	23
Avg/Min	1.37
Guaranteed Max/Min	2.5
Max/Min	1.81
UG (adjacent pts)	1.29
CU	0.73
No. of Points	96
LUMINAIRE INFORMATION	
Applied Circuits	D
No. of Luminaires	24
Total Load	29.04 kW

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

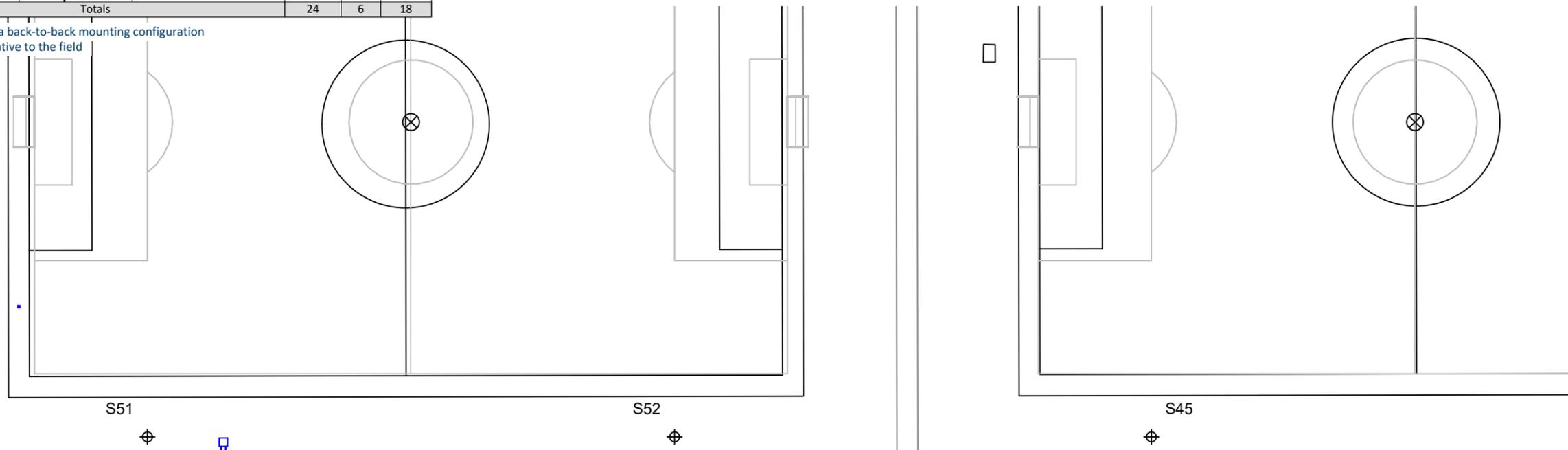


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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
3	S45 S51-S52	70'	-	70'	TLC-LED-1200	6	0	6
				70'	TLC-LED-550	2*	2	0
3	Totals					24	6	18

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field



Foley Soccer Complex Phase 2

Foley, AL

Grid Summary	
Name	Parking
Size	2' x 2'
Spacing	10.0' x 10.0'
Height	3.0' above grade

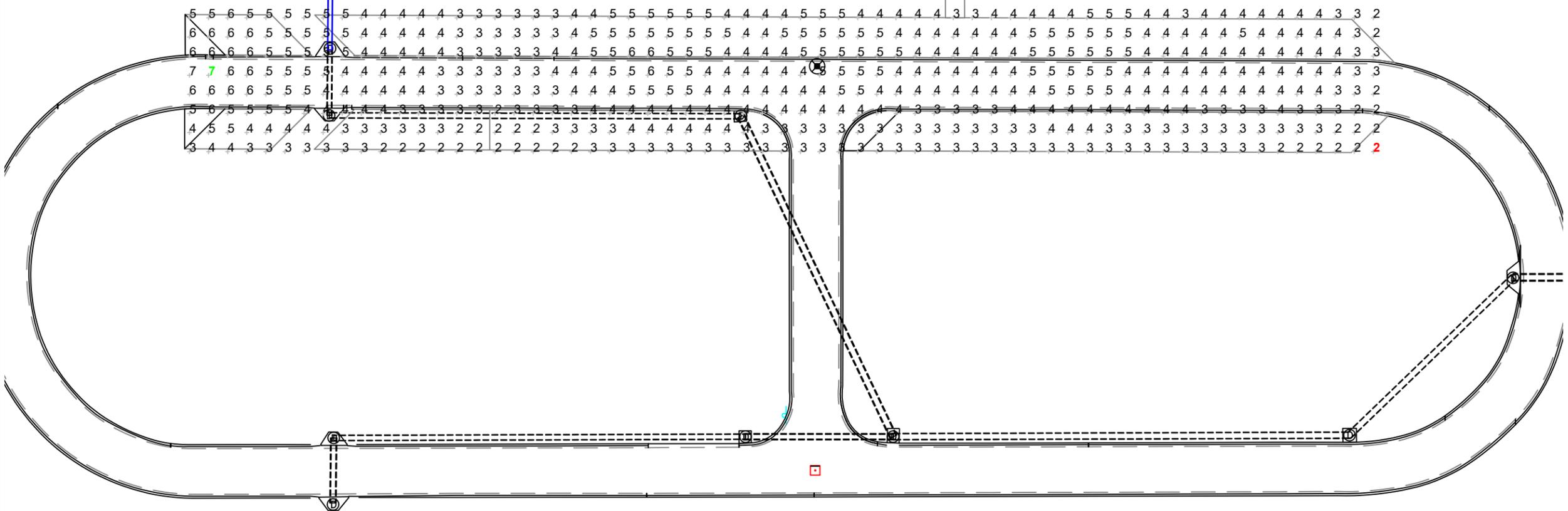
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	3.88
Maximum	7
Minimum	2
Avg/Min	2.39
Max/Min	4.11
No. of Points	504
LUMINAIRE INFORMATION	
Applied Circuits	E
No. of Luminaires	6
Total Load	3.24 kW

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



SCALE IN FEET 1 : 60

ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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ILLUMINATION SUMMARY

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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S41-S42	70'	-	70'	TLC-LED-1200	6	6	0
2	S43-S44	70'	-	70'	TLC-LED-1200	6/4*	6	4
				70'	TLC-LED-1500	2*	0	2
4	Totals					36	24	12

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field

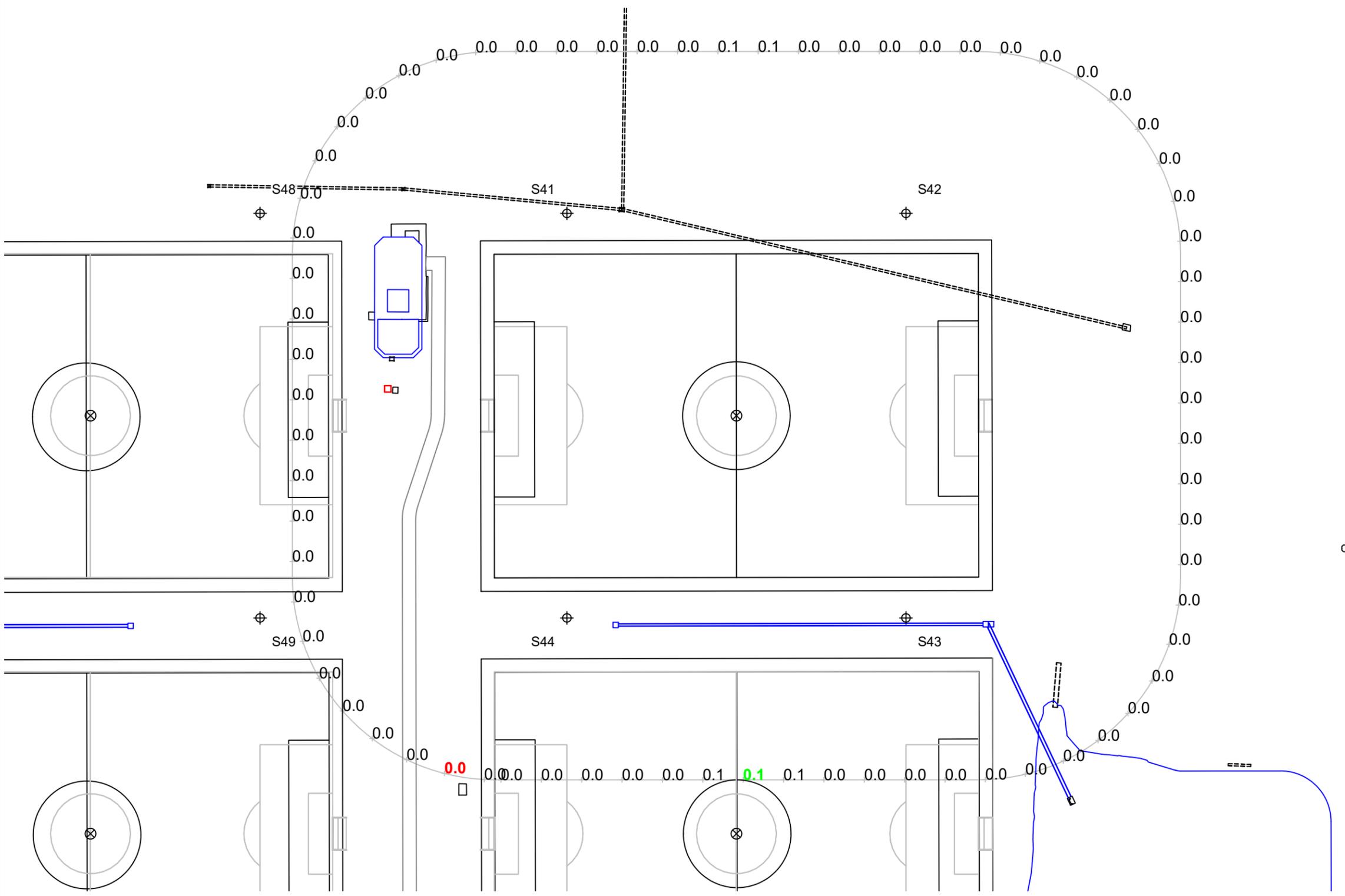
Foley Soccer Complex Phase 2

Foley, AL

Grid Summary	
Name	Field 1 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	0.0171
Maximum	0.06
Minimum	0.00
CU	0.00
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	24
Total Load	28.08 kW

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SCALE IN FEET 1 : 80
 ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S41-S42	70'	-	70'	TLC-LED-1200	6	6	0
2	S43-S44	70'	-	70'	TLC-LED-1200	6/4*	6	4
				70'	TLC-LED-1500	2*	0	2
4	Totals					36	24	12

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field

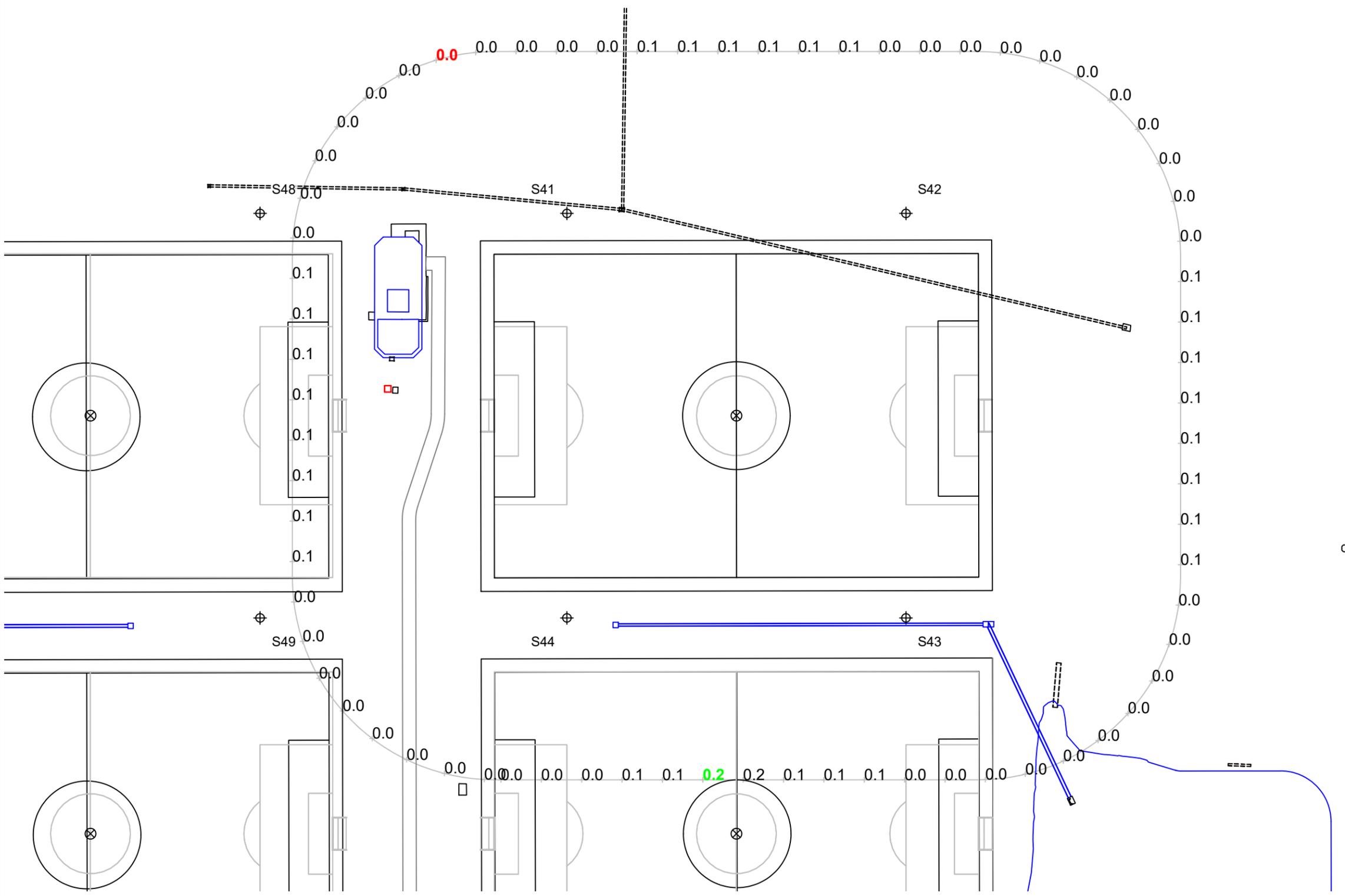
Foley Soccer Complex Phase 2

Foley, AL

Grid Summary	
Name	Field 1 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average	0.0529
Maximum	0.15
Minimum	0.00
CU	0.00
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	24
Total Load	28.08 kW

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2	S41-S42	70'	-	70'	TLC-LED-1200	6	6	0
2	S43-S44	70'	-	70'	TLC-LED-1200	6/4*	6	4
				70'	TLC-LED-1500	2*	0	2
4	Totals					36	24	12

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 *Above Grade level relative to the field

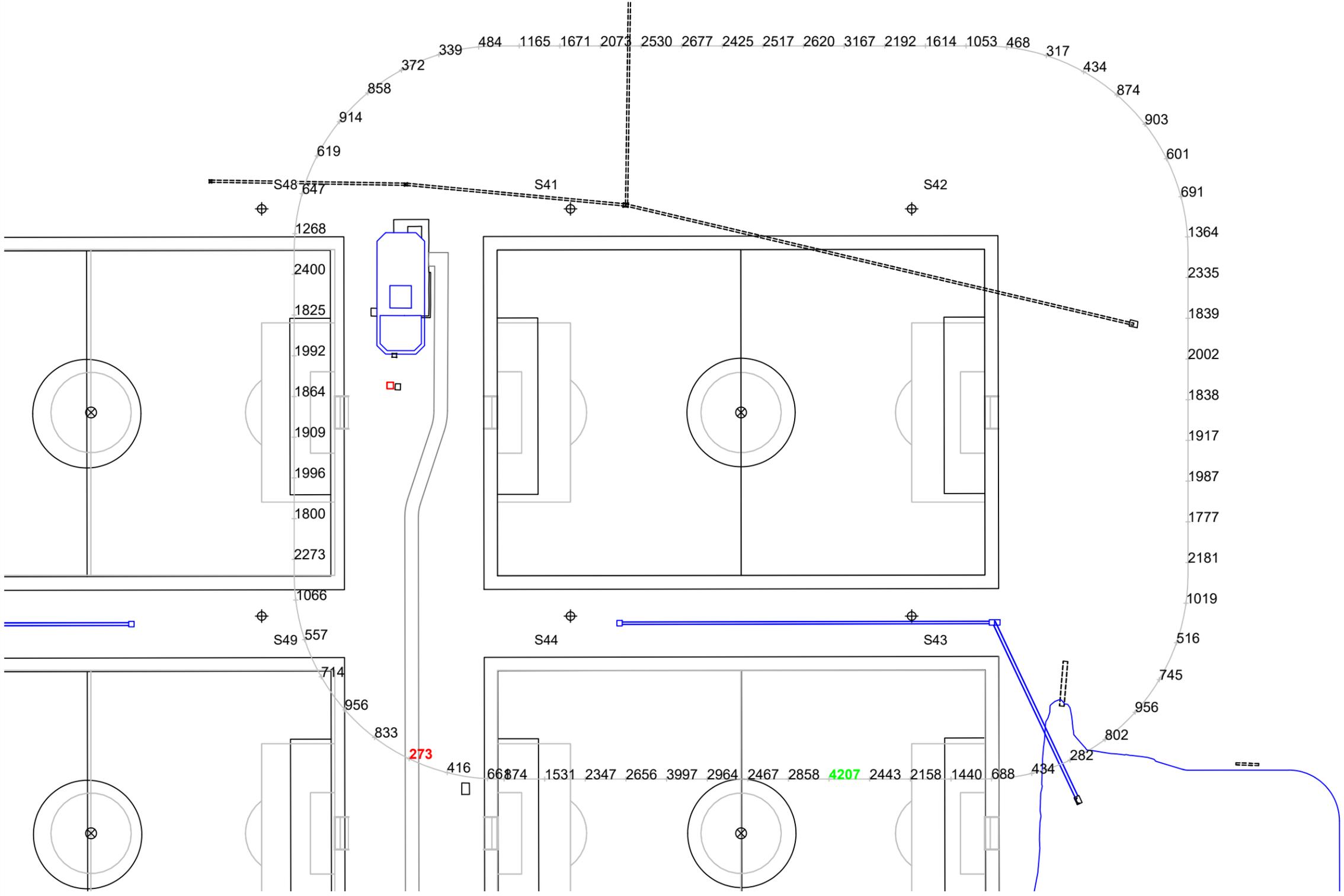
Foley Soccer Complex Phase 2

Foley, AL

Grid Summary	
Name	Field 1 Spill Cd
Spacing	30.0' x 30.0'
Height	5.0' above grade

Illumination Summary	
MAINTAINED CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average	1522.9529
Maximum	4206.97
Minimum	272.83
CU	0.00
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	24
Total Load	28.08 kW

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SCALE IN FEET 1 : 80
 0' 80' 160'
 ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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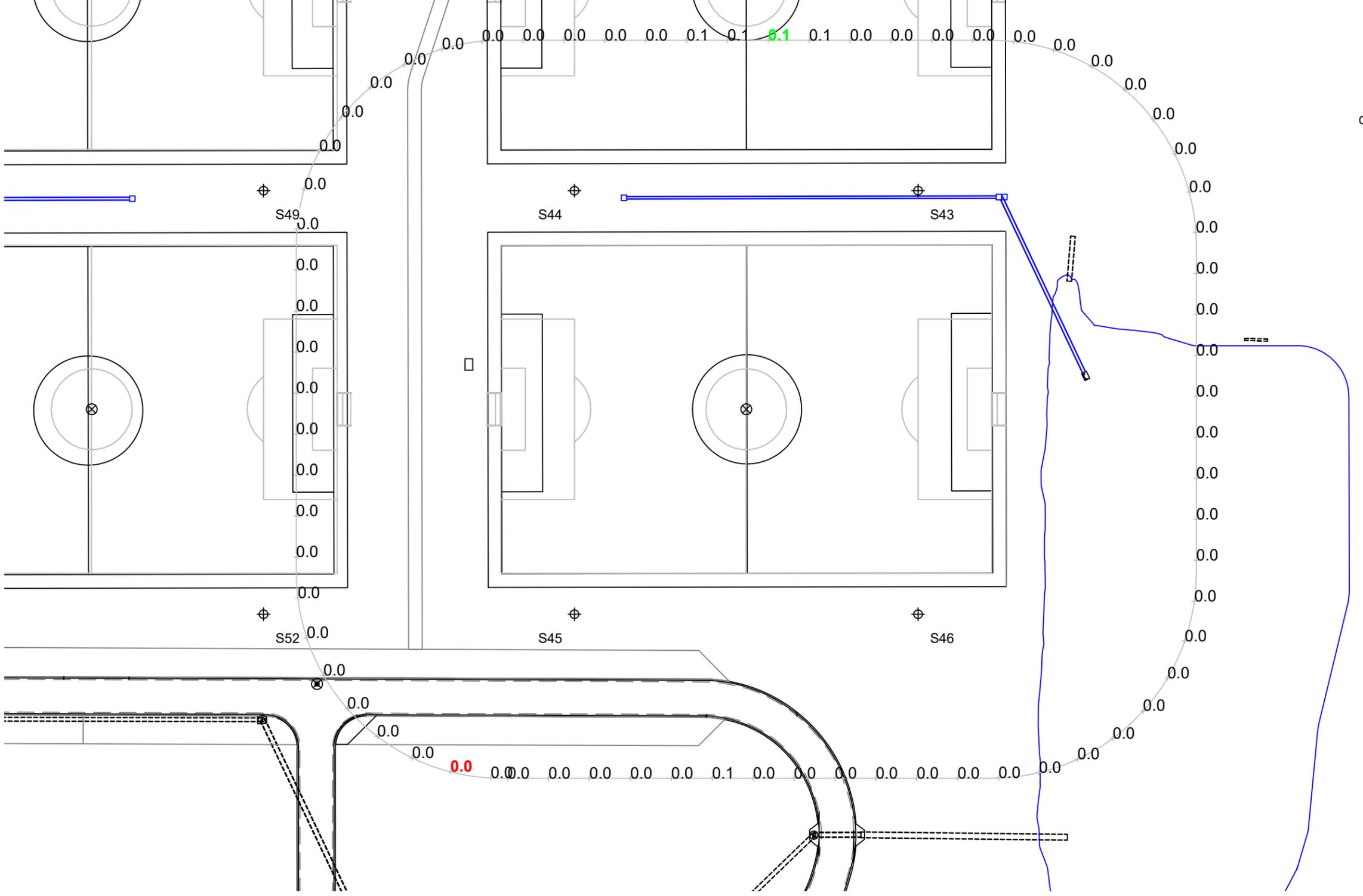
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2	S43-S44	70'	-	70'	TLC-LED-1200	6/4*	4	6
				70'	TLC-LED-1500	2*	2	0
1	S45	70'	-	70'	TLC-LED-1200	6	6	0
				70'	TLC-LED-550	2*	0	2
1	S46	70'	-	70'	TLC-LED-1200	6	6	0
4	Totals					38	24	14

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field



Foley Soccer Complex Phase 2

Grid Summary	
Name	Field 2 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	0.0222
Maximum	0.08
Minimum	0.00
CU	0.00
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	24
Total Load	29.04 kW

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SCALE IN FEET 1 : 80
 0' 80' 160'
 ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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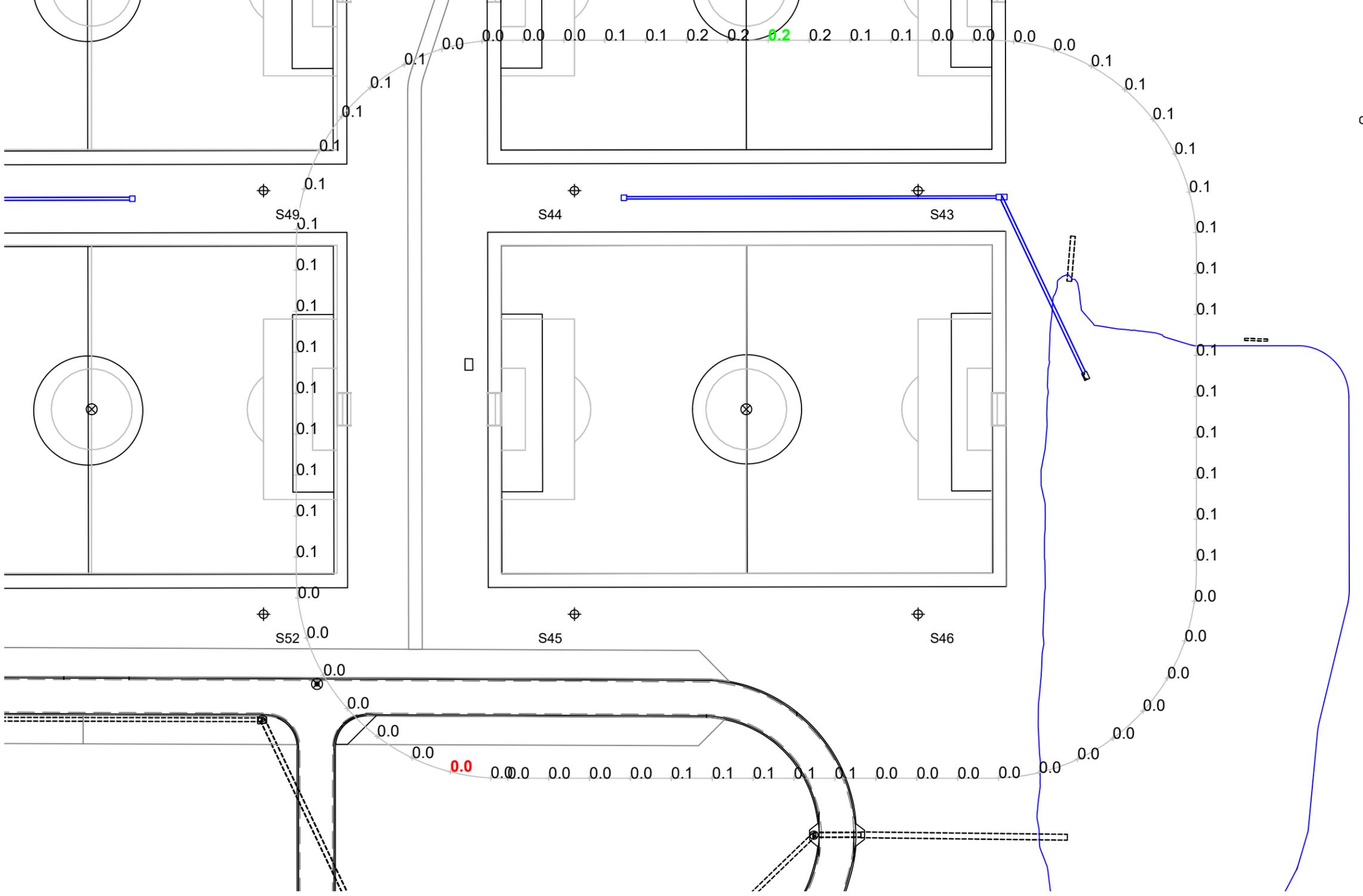


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Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S43-S44	70'	-	70'	TLC-LED-1200	6/4*	4	6
				70'	TLC-LED-1500	2*	2	0
1	S45	70'	-	70'	TLC-LED-1200	6	6	0
				70'	TLC-LED-550	2*	0	2
1	S46	70'	-	70'	TLC-LED-1200	6	6	0
4	Totals					38	24	14

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field



Foley Soccer Complex Phase 2

Grid Summary	
Name	Field 2 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Scan Average	0.0669
Maximum	0.18
Minimum	0.00
CU	0.00
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	24
Total Load	29.04 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.

SCALE IN FEET 1 : 80
 0' 80' 160'
 ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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



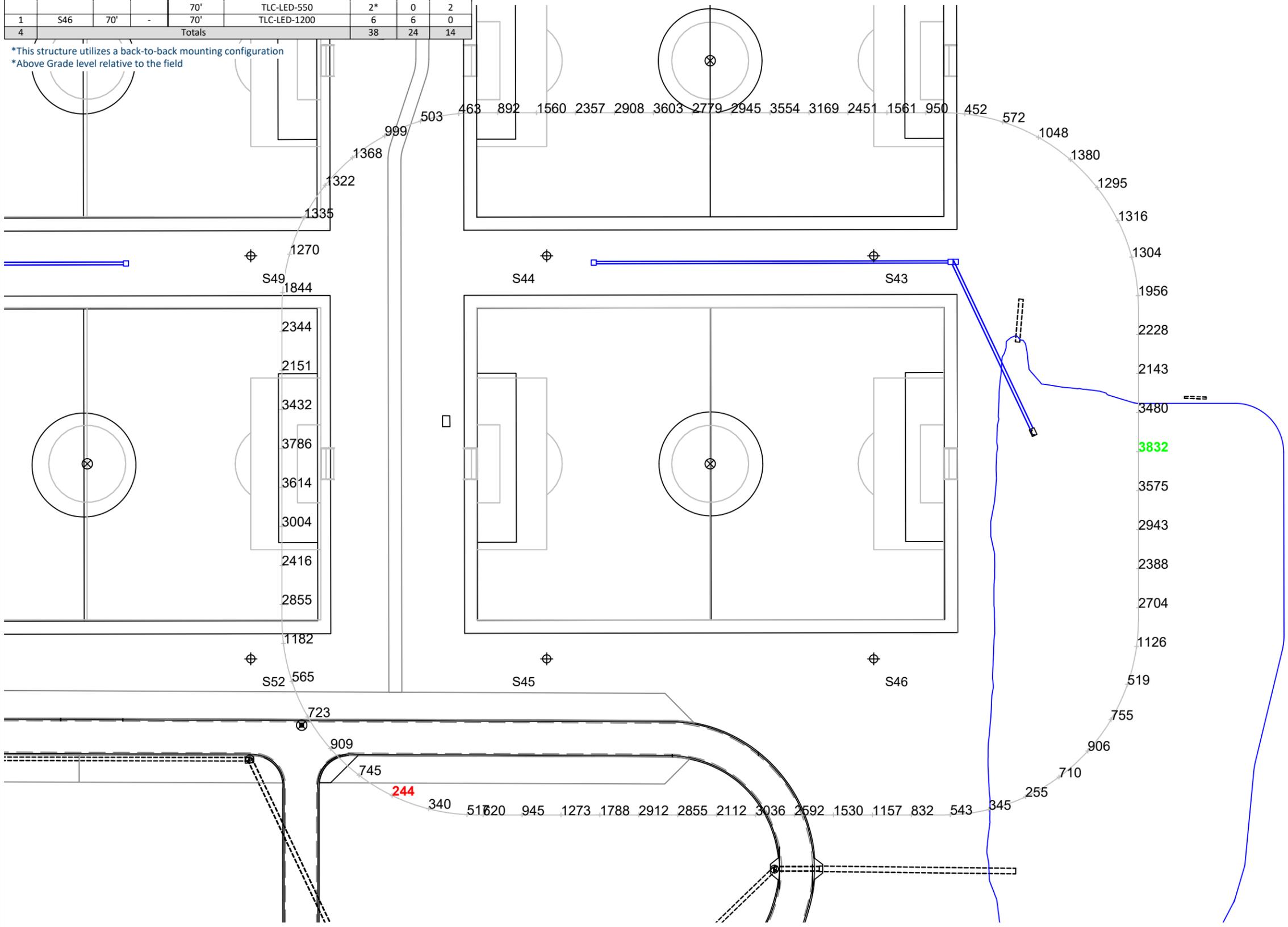
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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S43-S44	70'	-	70'	TLC-LED-1200	6/4*	4	6
				70'	TLC-LED-1500	2*	2	0
1	S45	70'	-	70'	TLC-LED-1200	6	6	0
				70'	TLC-LED-550	2*	0	2
1	S46	70'	-	70'	TLC-LED-1200	6	6	0
4	Totals					38	24	14

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field



Foley Soccer Complex Phase 2

Foley, AL

Grid Summary

Name	Field 2 Spill Cd
Spacing	30.0' x 30.0'
Height	5.0' above grade

Illumination Summary

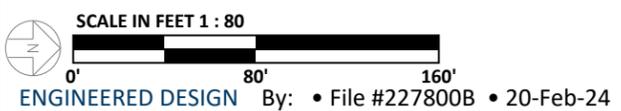
	MAINTAINED CANDELA (PER FIXTURE)
Entire Grid	
Scan Average	1751.1927
Maximum	3832.06
Minimum	243.68
CU	0.00
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	24
Total Load	29.04 kW

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Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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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	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S47-S48	70'	-	70'	TLC-LED-1200	6	6	0
2	S49-S50	70'	-	70'	TLC-LED-1200	6/4*	6	4
				70'	TLC-LED-1500	2*	0	2
4	Totals					36	24	12

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field

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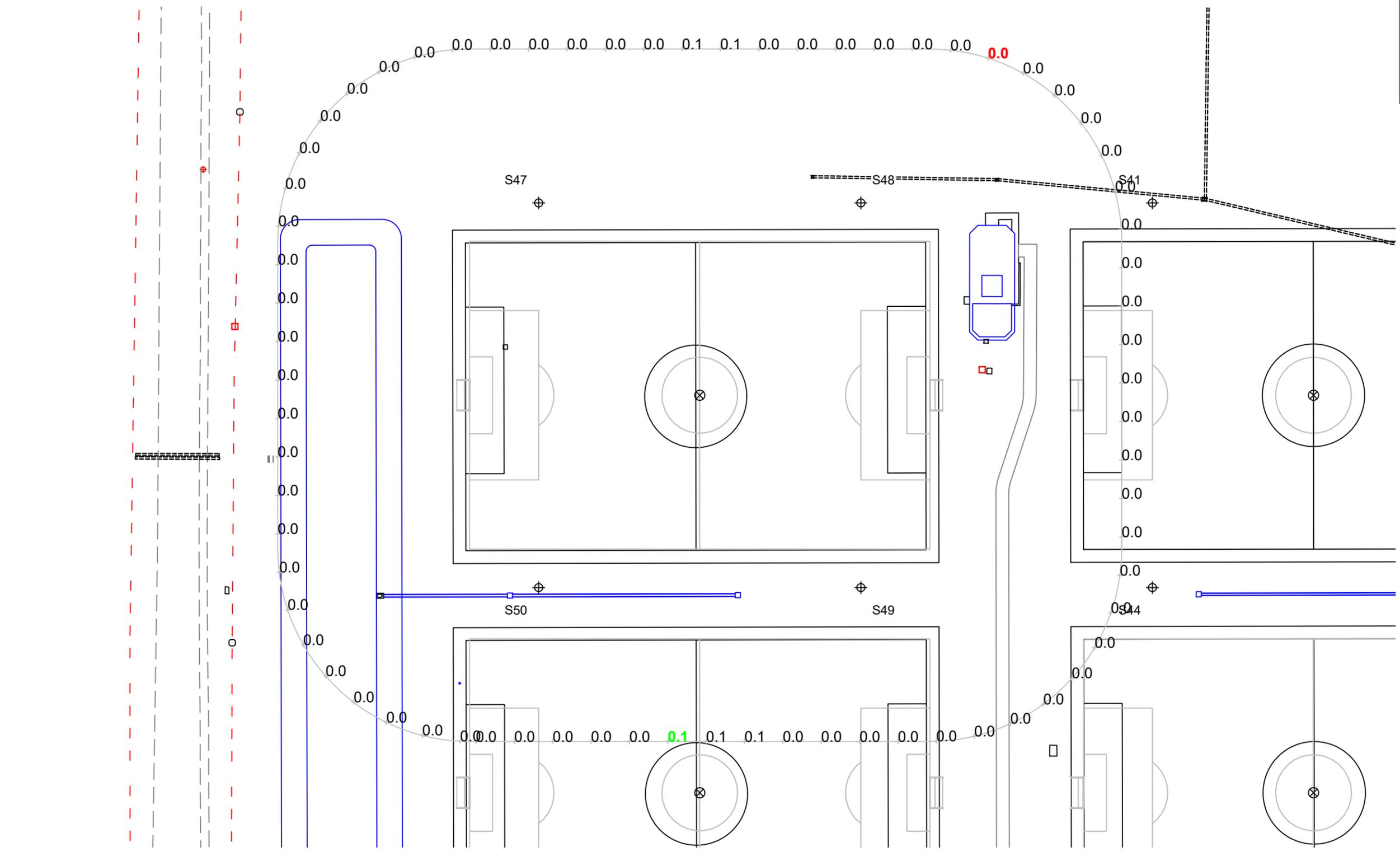
Foley Soccer Complex Phase 2

Foley, AL

Grid Summary	
Name	Field 3 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	0.0184
Maximum	0.06
Minimum	0.00
CU	0.00
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	C
No. of Luminaires	24
Total Load	28.08 kW

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Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.
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.



SCALE IN FEET 1 : 80
 0' 80' 160'
 ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S47-S48	70'	-	70'	TLC-LED-1200	6	6	0
2	S49-S50	70'	-	70'	TLC-LED-1200	6/4*	6	4
				70'	TLC-LED-1500	2*	0	2
4	Totals					36	24	12

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field

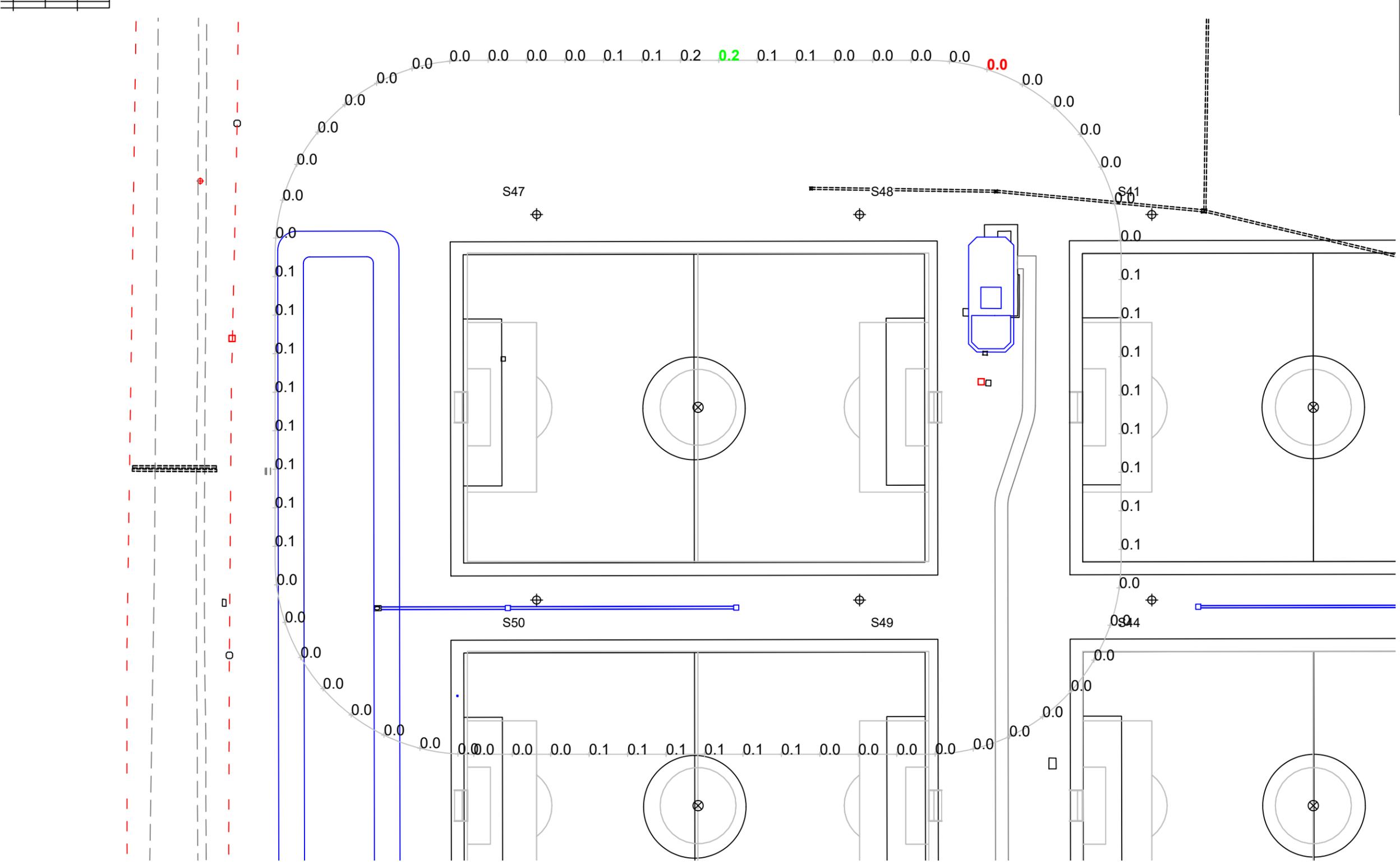
Foley Soccer Complex Phase 2

Foley, AL

Grid Summary	
Name	Field 3 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average	0.0561
Maximum	0.16
Minimum	0.01
CU	0.00
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	C
No. of Luminaires	24
Total Load	28.08 kW

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 0' 80' 160'
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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S47-S48	70'	-	70'	TLC-LED-1200	6	6	0
2	S49-S50	70'	-	70'	TLC-LED-1200	6/4*	6	4
				70'	TLC-LED-1500	2*	0	2
4	Totals					36	24	12

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field

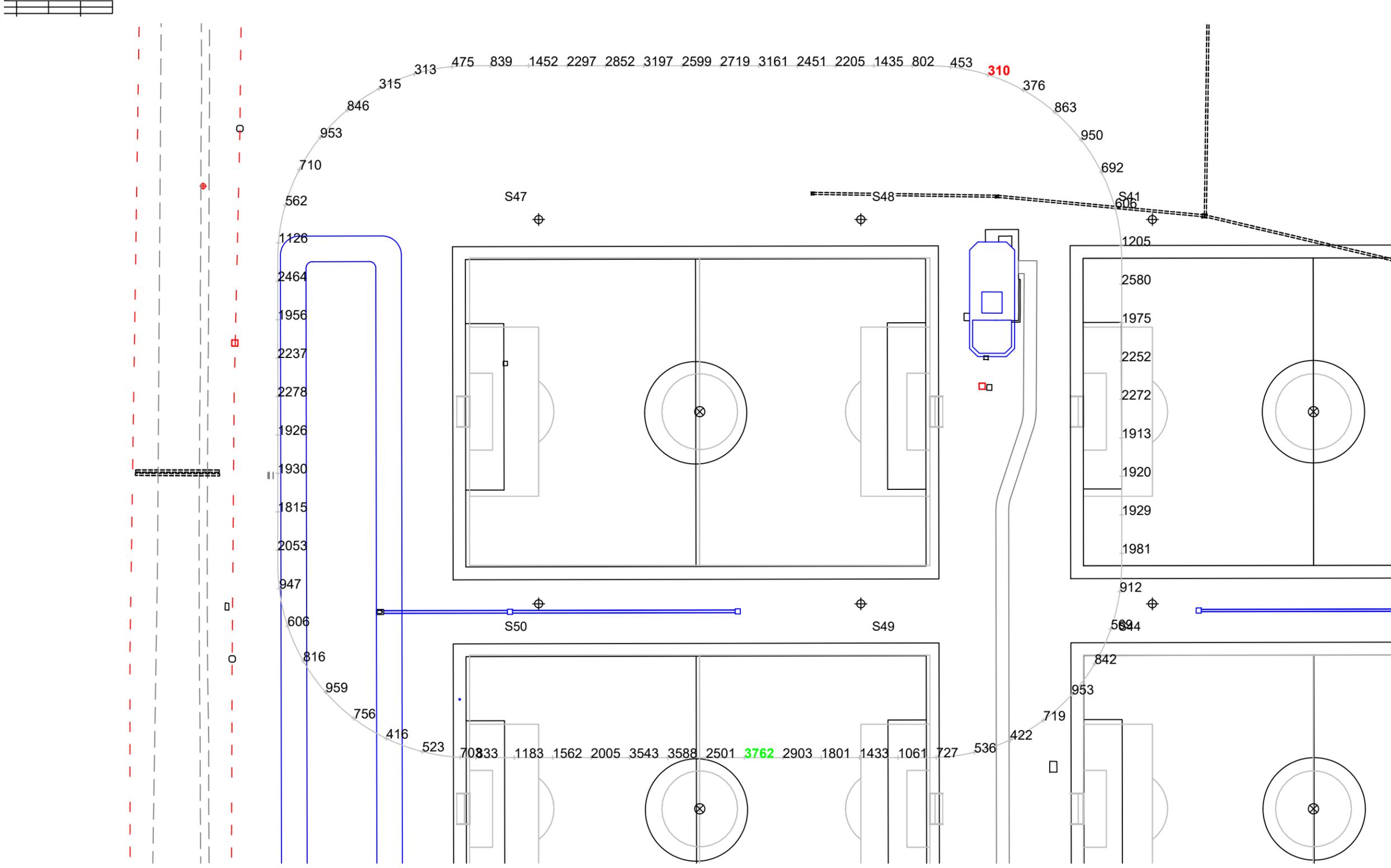
Foley Soccer Complex Phase 2

Foley, AL

Grid Summary	
Name	Field 3 Spill Cd
Spacing	30.0' x 30.0'
Height	5.0' above grade

Illumination Summary	
MAINTAINED CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average	1497.6366
Maximum	3762.44
Minimum	309.56
CU	0.00
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	C
No. of Luminaires	24
Total Load	28.08 kW

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ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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



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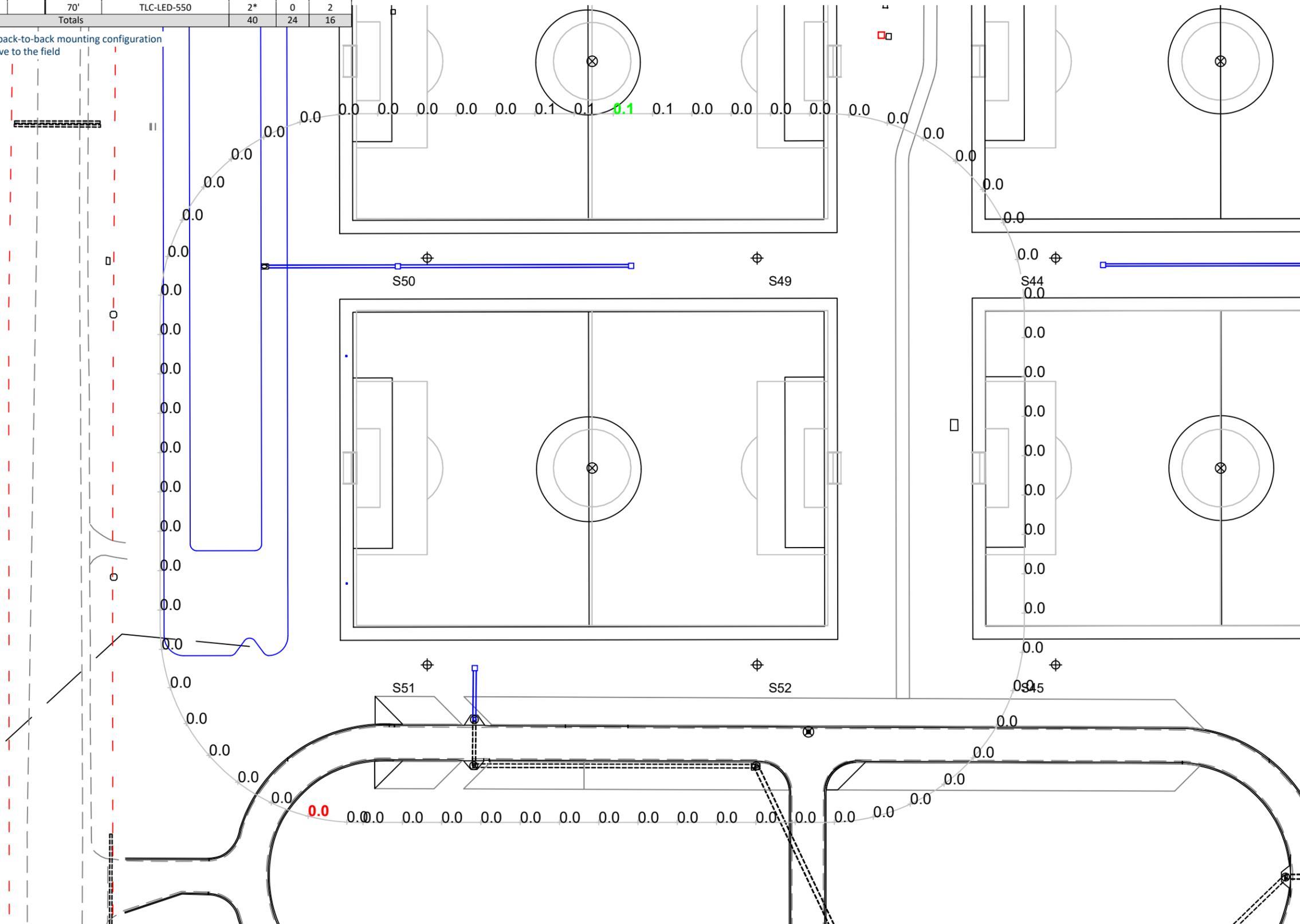
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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S49-S50	70'	-	70'	TLC-LED-1200	6/4*	4	6
				70'	TLC-LED-1500	2*	2	0
2	S51-S52	70'	-	70'	TLC-LED-1200	6	6	0
				70'	TLC-LED-550	2*	0	2
4	Totals					40	24	16

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field



Foley Soccer Complex Phase 2
 Foley, AL

Grid Summary

Name	Field 4 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	Scan Average 0.0234
	Maximum 0.08
	Minimum 0.00
	CU 0.00
	No. of Points 72
LUMINAIRE INFORMATION	
Applied Circuits	D
No. of Luminaires	24
Total Load	29.04 kW

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SCALE IN FEET 1 : 80
 0' 80' 160'
 ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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



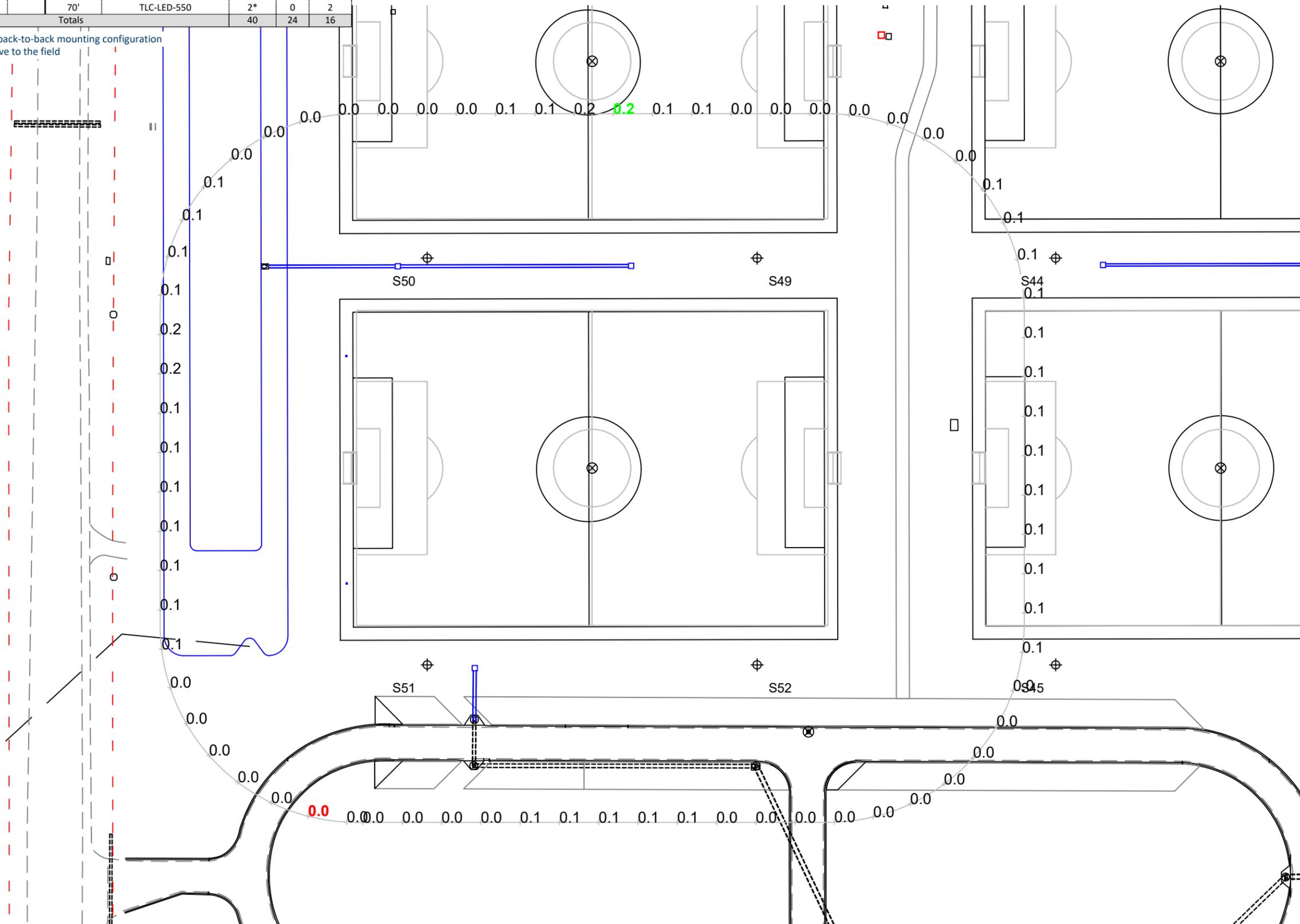
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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S49-S50	70'	-	70'	TLC-LED-1200	6/4*	4	6
				70'	TLC-LED-1500	2*	2	0
2	S51-S52	70'	-	70'	TLC-LED-1200	6	6	0
				70'	TLC-LED-550	2*	0	2
4	Totals					40	24	16

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field



Foley Soccer Complex Phase 2

Foley, AL

Grid Summary	
Name	Field 4 Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	Scan Average 0.0699
	Maximum 0.17
	Minimum 0.01
	CU 0.00
	No. of Points 72
LUMINAIRE INFORMATION	
Applied Circuits	D
No. of Luminaires	24
Total Load	29.04 kW

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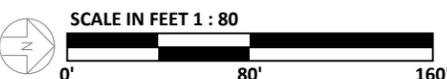
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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ILLUMINATION SUMMARY



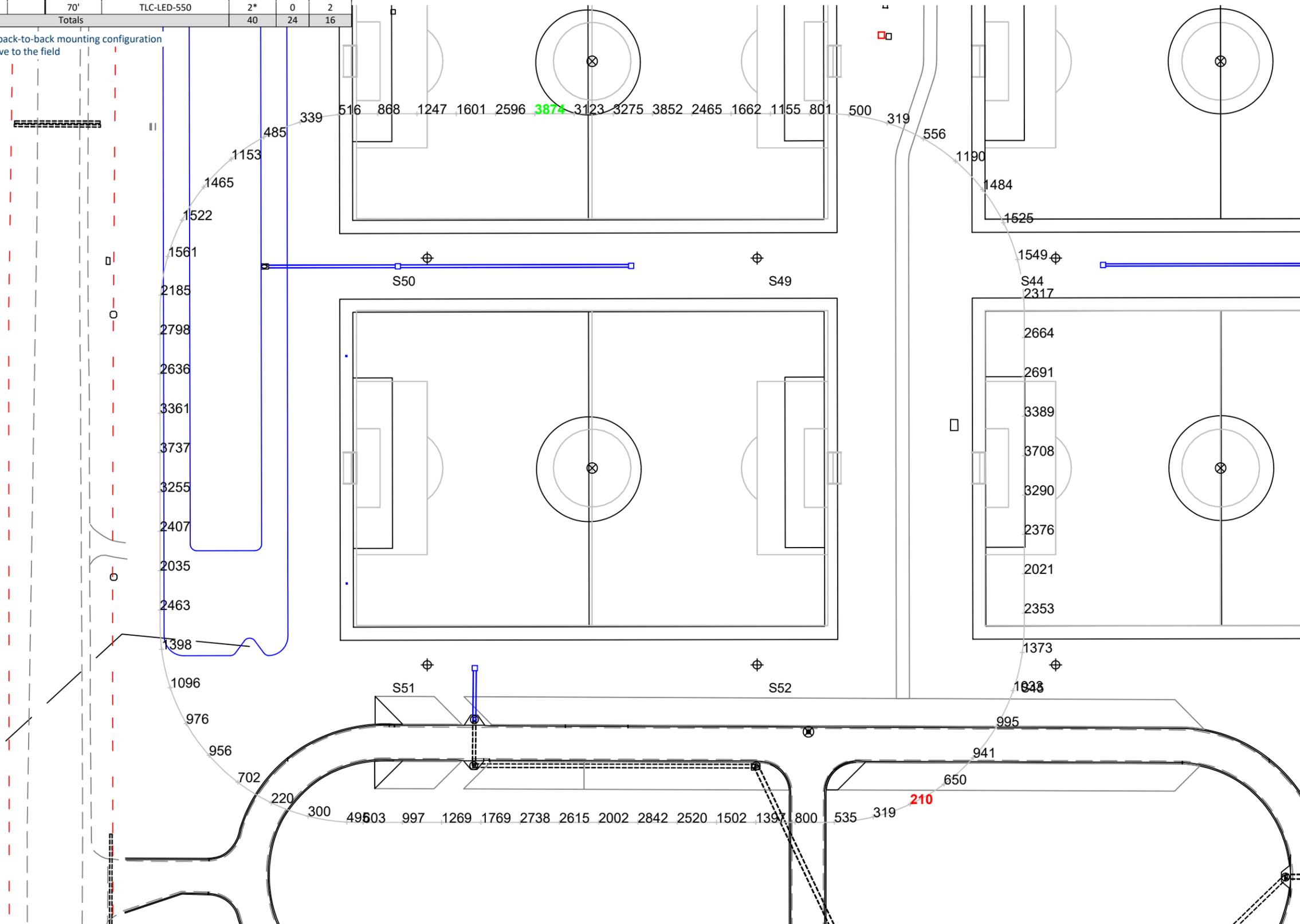
ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S49-S50	70'	-	70'	TLC-LED-1200	6/4*	4	6
				70'	TLC-LED-1500	2*	2	0
2	S51-S52	70'	-	70'	TLC-LED-1200	6	6	0
				70'	TLC-LED-550	2*	0	2
4	Totals					40	24	16

*This structure utilizes a back-to-back mounting configuration
 *Above Grade level relative to the field



Foley Soccer Complex Phase 2
 Foley, AL

Grid Summary

Name	Field 4 Spill Cd
Spacing	30.0' x 30.0'
Height	5.0' above grade

Illumination Summary

	MAINTAINED CANDELA (PER FIXTURE)
Entire Grid	
Scan Average	1716.9773
Maximum	3873.73
Minimum	209.84
CU	0.00
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	D
No. of Luminaires	24
Total Load	29.04 kW

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SCALE IN FEET 1 : 80
 0' 80' 160'
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Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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ILLUMINATION SUMMARY

Foley Soccer Complex Phase 2

Foley, AL

Equipment Layout

INCLUDES:

- Field 1
- Field 2
- Field 3
- Field 4
- Parking

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.

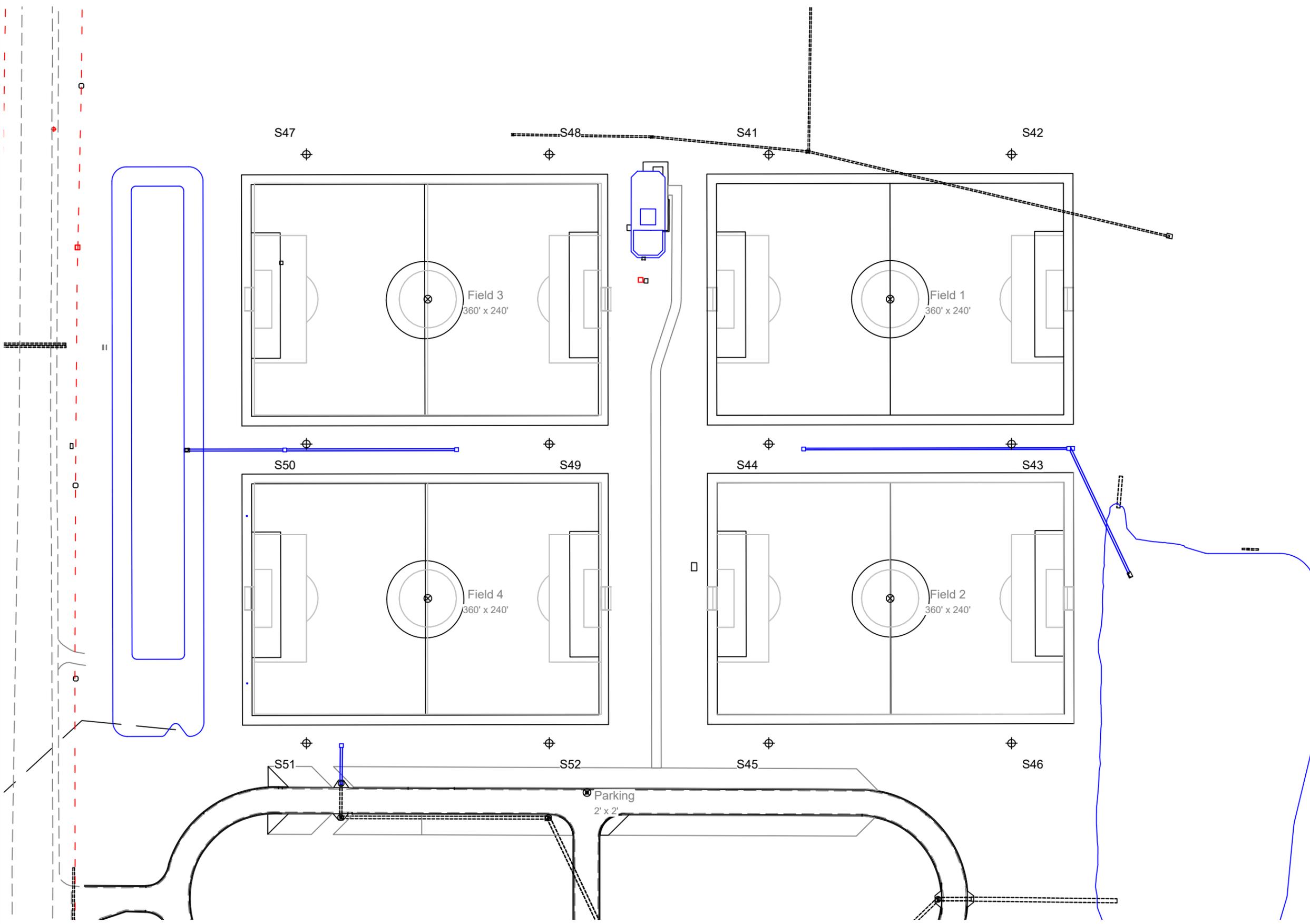
Equipment List For Areas Shown

QTY	LOCATION	Pole		Luminaires		
		SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
5	S41-S42 S46-S48	70'	-	70'	TLC-LED-1200	6
				70'	TLC-LED-1500	2*
4	S43-S44 S49-S50	70'	-	70'	TLC-LED-1200	6/4*
				70'	TLC-LED-1500	2*
3	S45 S51-S52	70'	-	70'	TLC-LED-1200	6
				70'	TLC-LED-550	2*
12	Totals					102

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

Single Luminaire Amperage Draw Chart

Driver 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	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-1200	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4



SCALE IN FEET 1 : 100
 0' 100' 200'
 ENGINEERED DESIGN By: • File #227800B • 20-Feb-24

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



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