

Benjamin Franklin High School Football Soccer

Livonia, MI

Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
F1-F2	80'	80'	9	TLC-LED-1200	10.53 kW	A
		25'	1	TLC-RGB-U	0.43 kW	A
		25'	2	TLC-BT-575	1.15 kW	A
F3-F4	80'	80'	9	TLC-LED-1200	10.53 kW	A
		16'	1	TLC-RGB-U	0.43 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
4			48		48.44 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Football	48.44 kW	48

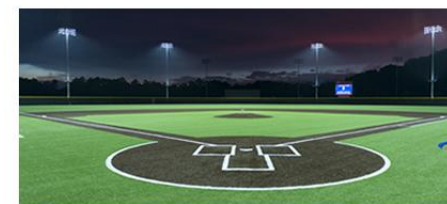
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	36
TLC-RGB-U	RED-GREEN (Shown)-BLUE	430W	16,000	21,300	>36,300	>36,300	4

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	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)	
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5	
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0	
TLC-RGB-U	3.0	2.8	2.6	2.2	1.8	1.3	1.3	

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
150ft Spill Line at 3ft.	Horizontal Illuminance	0.0083	0.00	0.02	181.998	62.477	A	48
150ft Spill Line at 5ft.	Max Candela Metric	1162.5328	40.56	3193.47	78.735	28.662	A	48
150ft Spill Line at 5ft.	Max Vertical Illuminance Metric	0.0229	0.00	0.07	197.593	66.835	A	48
Football	Horizontal Illuminance	51.46	41	64	1.57	1.27	A	48
Home Bleacher	Horizontal Illuminance	6.76	1	17	23.23	9.05	A	48
Property Spill Line at 3ft.	Horizontal Illuminance	0.6434	0.00	2.43	-	-	A	48
Property Spill Line at 5ft.	Max Candela Metric	6406.6743	2.30	16532.08	7198.839	2789.765	A	48
Property Spill Line at 5ft.	Max Vertical Illuminance Metric	0.7803	0.00	2.76	-	-	A	48
Track	Horizontal Illuminance	16.22	1	40	55.99	22.79	A	48
Visitor Bleacher	Horizontal Illuminance	7.59	3	14	4.52	2.51	A	48

From Hometown to Professional



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PROJECT 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	F1-F2	80'	-	80'	TLC-LED-1200	9	9	0
				25'	TLC-BT-575	2	2	0
				25'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1200	9	9	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	1	0
4	Totals					48	48	0

*Above Grade level relative to the field



Benjamin Franklin High School Football Soccer

Livonia, MI

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

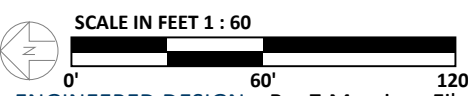
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average	50
Scan Average	51.46
Maximum	64
Minimum	41
Avg/Min	1.27
Guaranteed Max/Min	2
Max/Min	1.57
UG (adjacent pts)	1.35
CU	0.57
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	48
Total Load	48.44 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.



ENGINEERED DESIGN By: Z.Morris • File #191258A • 23-Oct-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	F1-F2	80'	-	80'	TLC-LED-1200	9	9	0
				25'	TLC-BT-575	2	2	0
				25'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1200	9	9	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	1	0
4				Totals		48	48	0

*Above Grade level relative to the field



Benjamin Franklin High School Football Soccer

Livonia, MI

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

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Scan Average	16.22
Maximum	40
Minimum	1
Avg/Min	22.79
Max/Min	55.99
UG (adjacent pts)	0.00
CU	0.12
No. of Points	50
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	48
Total Load	48.44 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
 0' 60' 120'
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Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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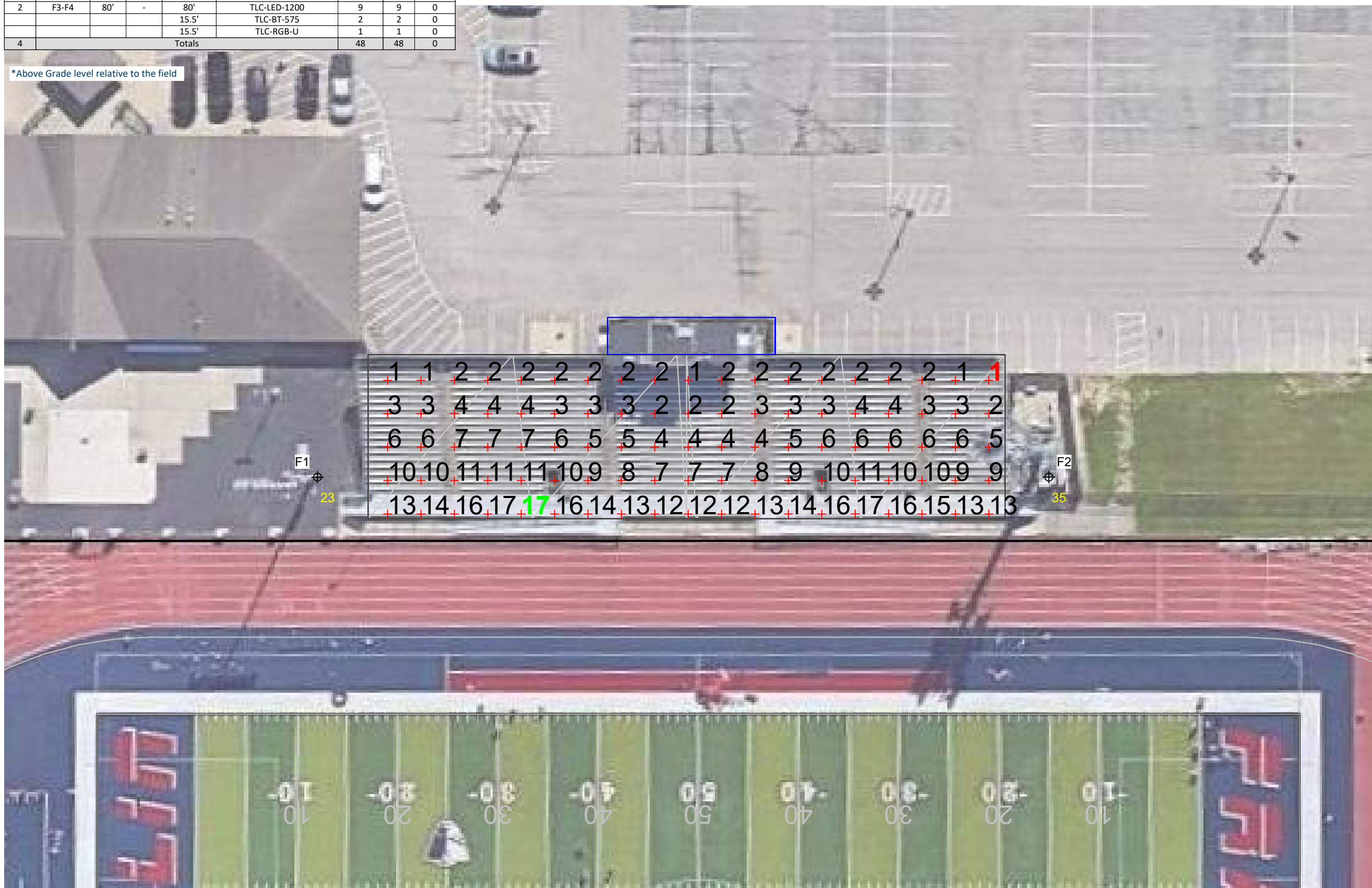
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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1200	9	9	0
				25'	TLC-BT-575	2	2	0
				25'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1200	9	9	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	1	0
4	Totals					48	48	0

*Above Grade level relative to the field



1	1	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	1	1
3	3	4	4	4	3	3	3	2	2	2	3	3	3	4	4	3	3	2
6	6	7	7	7	6	5	5	4	4	4	4	5	6	6	6	6	6	5
10	10	11	11	11	10	9	8	7	7	7	8	9	10	11	10	10	9	9
13	14	16	17	17	16	14	13	12	12	12	13	14	16	17	16	15	13	13

Benjamin Franklin High School Football Soccer

Livonia, MI

Grid Summary	
Name	Home Bleacher
Spacing	10.0'
Height	6.5' above grade

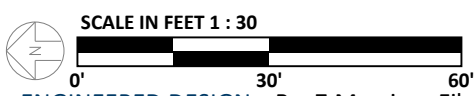
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average	6.76
Maximum	17
Minimum	1
Avg/Min	9.05
Max/Min	23.23
UG (adjacent pts)	0.00
CU	0.01
No. of Points	95
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	48
Total Load	48.44 kW

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.



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

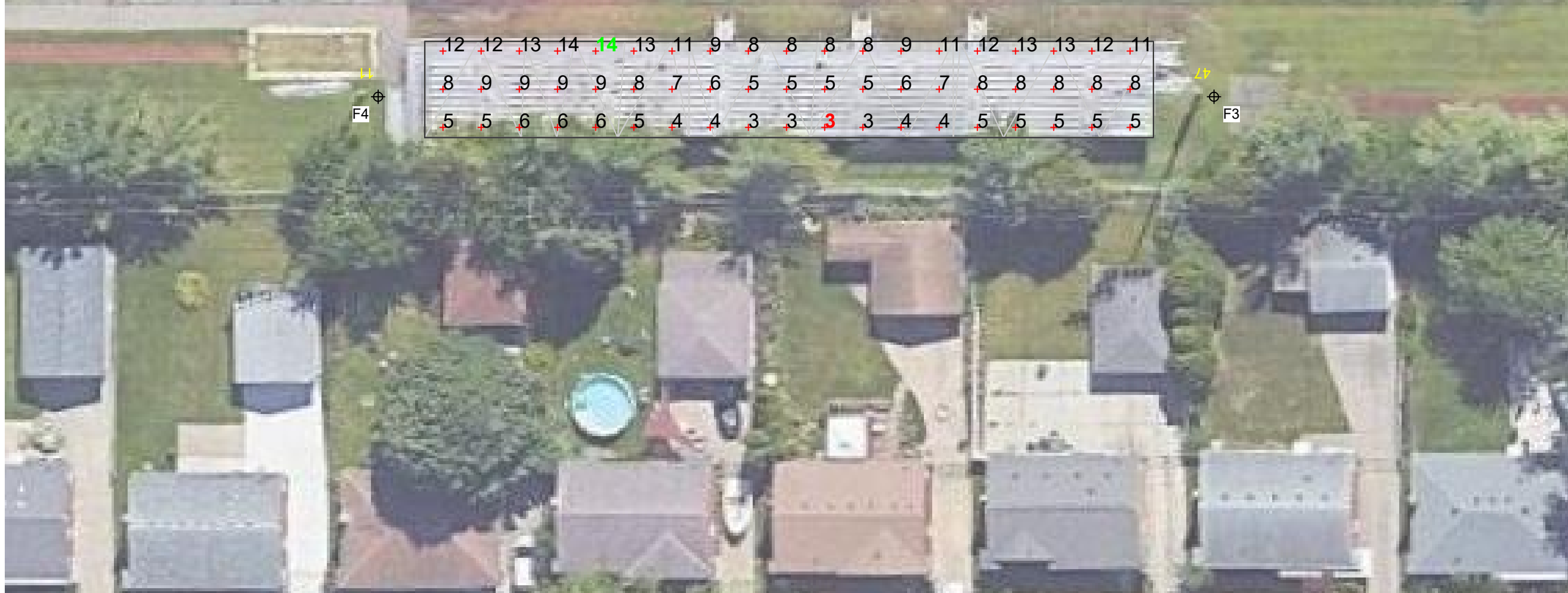


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Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1200	9	9	0
				25'	TLC-BT-575	2	2	0
				25'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1200	9	9	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	1	0
4	Totals					48	48	0

*Above Grade level relative to the field



Benjamin Franklin High School Football Soccer

Livonia, MI

Grid Summary	
Name	Visitor Bleacher
Spacing	10.0'
Height	12.3' above grade

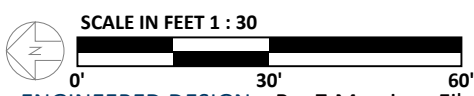
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average	7.59
Maximum	14
Minimum	3
Avg/Min	2.51
Max/Min	4.52
UG (adjacent pts)	0.00
CU	0.01
No. of Points	57
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	48
Total Load	48.44 kW

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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	F1-F2	80'	-	80'	TLC-LED-1200	9	9	0
				25'	TLC-BT-575	2	2	0
				25'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1200	9	9	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	1	0
4	Totals					48	48	0

*Above Grade level relative to the field



Benjamin Franklin High School Football Soccer

Livonia, MI

Grid Summary	
Name	150ft Spill Line at 3ft.
Spacing	30.0'
Height	3.0' above grade

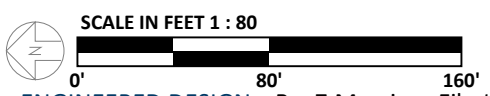
Illumination Summary	
INITIAL HORIZONTAL FOOTCANDLES	
Entire Grid	0.0083
Scan Average	0.02
Maximum	0.02
Minimum	0.00
CU	0.00
No. of Points	81
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	48
Total Load	48.44 kW

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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	F1-F2	80'	-	80'	TLC-LED-1200	9	9	0
				25'	TLC-BT-575	2	2	0
				25'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1200	9	9	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	1	0
4	Totals					48	48	0

*Above Grade level relative to the field



Benjamin Franklin High School Football Soccer

Livonia, MI

Grid Summary	
Name	150ft Spill Line at 5ft.
Spacing	30.0'
Height	5.0' above grade

Illumination Summary	
INITIAL MAX VERTICAL FOOTCANDLES	
Entire Grid	0.0229
Scan Average	0.0229
Maximum	0.07
Minimum	0.00
CU	0.00
No. of Points	81
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	48
Total Load	48.44 kW

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SCALE IN FEET 1 : 80
 0' 80' 160'
 ENGINEERED DESIGN By: Z.Morris • File #191258A • 23-Oct-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	F1-F2	80'	-	80'	TLC-LED-1200	9	9	0
				25'	TLC-BT-575	2	2	0
				25'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1200	9	9	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	1	0
4	Totals					48	48	0

*Above Grade level relative to the field



Benjamin Franklin High School Football Soccer

Livonia, MI

Grid Summary	
Name	150ft Spill Line at 5ft.
Spacing	30.0'
Height	5.0' above grade

Illumination Summary	
	INITIAL CANDELA (PER FIXTURE)
Entire Grid	
Scan Average	1162.5328
Maximum	3193.47
Minimum	40.56
CU	0.00
No. of Points	81
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	48
Total Load	48.44 kW

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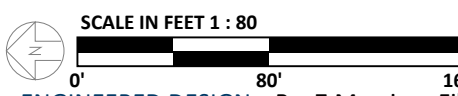
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Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1200	9	9	0
				25'	TLC-BT-575	2	2	0
				25'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1200	9	9	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	1	0
4	Totals					48	48	0

*Above Grade level relative to the field



Benjamin Franklin High School Football Soccer

Livonia, MI

Grid Summary	
Name	Property Spill Line at 3ft.
Spacing	30.0'
Height	3.0' above grade

Illumination Summary	
	INITIAL HORIZONTAL FOOTCANDELS
	Entire Grid
Scan Average	0.6434
Maximum	2.43
Minimum	0.00
CU	0.00
No. of Points	36
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	48
Total Load	48.44 kW

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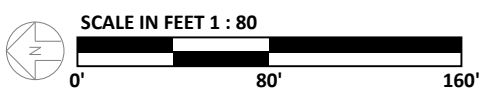
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Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1200	9	9	0
				25'	TLC-BT-575	2	2	0
				25'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1200	9	9	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	1	0
4	Totals					48	48	0

*Above Grade level relative to the field



Benjamin Franklin High School Football Soccer

Livonia, MI

Grid Summary	
Name	Property Spill Line at 5ft.
Spacing	30.0'
Height	5.0' above grade

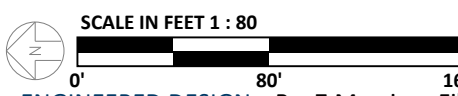
Illumination Summary	
INITIAL MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average	0.7803
Maximum	2.76
Minimum	0.00
CU	0.00
No. of Points	36
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	48
Total Load	48.44 kW

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ENGINEERED DESIGN By: Z.Morris • File #191258A • 23-Oct-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	F1-F2	80'	-	80'	TLC-LED-1200	9	9	0
				25'	TLC-BT-575	2	2	0
				25'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1200	9	9	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	1	0
4	Totals					48	48	0

*Above Grade level relative to the field



Benjamin Franklin High School Football Soccer

Livonia, MI

Grid Summary	
Name	Property Spill Line at 5ft.
Spacing	30.0'
Height	5.0' above grade

Illumination Summary	
	INITIAL CANDELA (PER FIXTURE)
Entire Grid	
Scan Average	6406.6743
Maximum	16532.08
Minimum	2.30
CU	0.00
No. of Points	36
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	48
Total Load	48.44 kW

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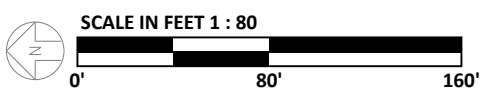
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



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

ENGINEERED DESIGN By: Z.Morris • File #191258A • 23-Oct-24

ILLUMINATION SUMMARY

Benjamin Franklin High School Football Soccer

Livonia, MI

Equipment Layout

INCLUDES:
 · Football
 · Track

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

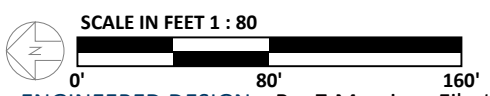
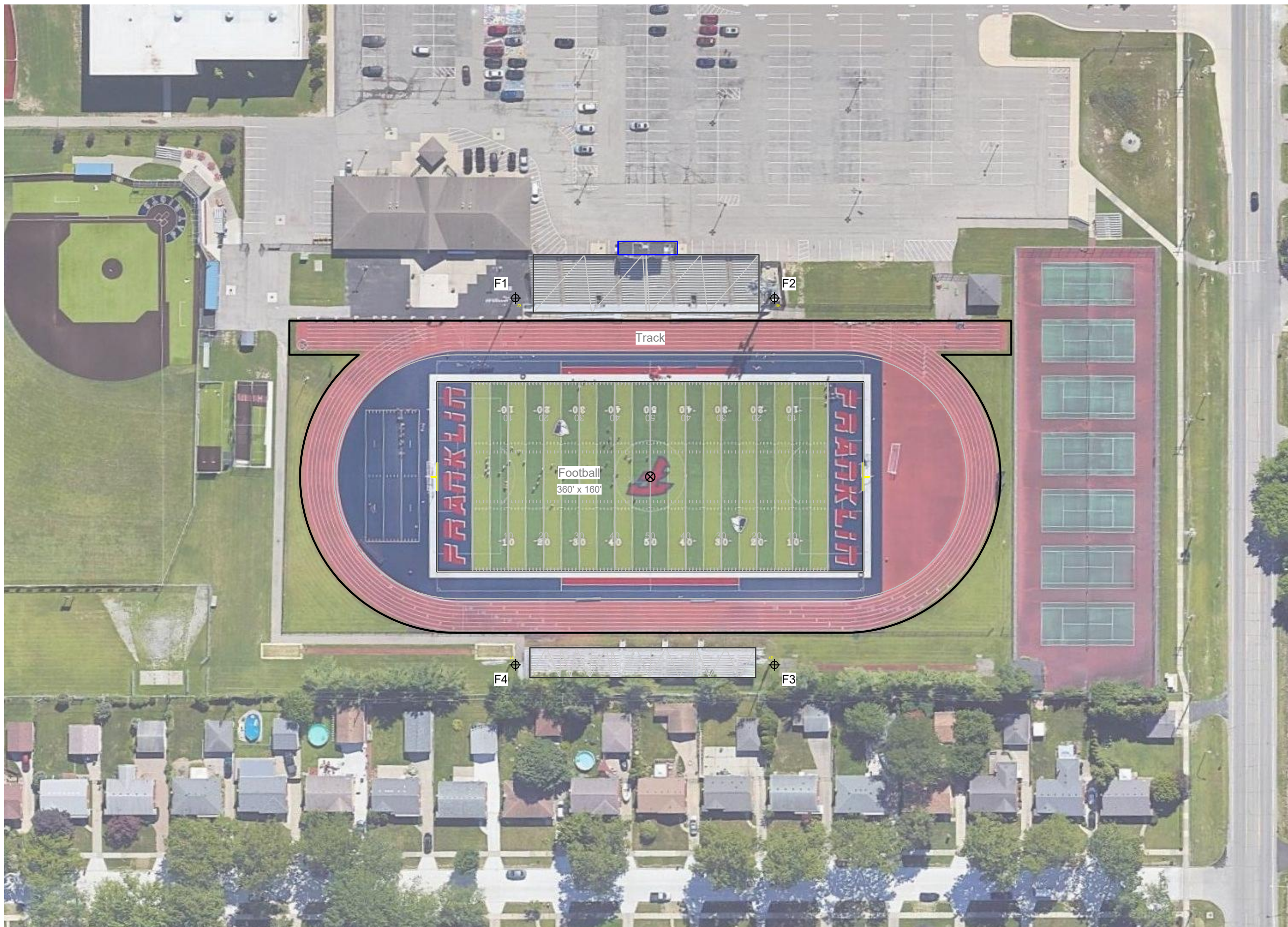
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown

QTY	LOCATION	Pole		Luminaires		
		SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
2	F1-F2	80'	-	80'	TLC-LED-1200	9
				25'	TLC-BT-575	2
2	F3-F4	80'	-	80'	TLC-LED-1200	9
				15.5'	TLC-BT-575	2
4	Totals					48

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-RGB-U	3.0	2.8	2.6	2.2	1.8	1.3	1.3



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

