

Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
F1-F2	70'	68'	1	TLC-LED-900	0.88 kW	A
		68'	3	TLC-LED-1200	3.51 kW	A
		68'	3	TLC-LED-1500	4.23 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
F3-F4	70'	70'	1	TLC-LED-900	0.88 kW	A
		70'	3	TLC-LED-1200	3.51 kW	A
		70'	3	TLC-LED-1500	4.23 kW	A
		25'	2	TLC-BT-575	1.15 kW	A
T1-T2	30'	30'	1	TLC-LED-550	0.54 kW	B
T3	30'	30'	2	TLC-LED-550	1.08 kW	B
T4	30'	30'	1	TLC-LED-550	0.54 kW	B
		30'	1	TLC-LED-550	0.54 kW	C
T5	30'	30'	2	TLC-LED-550	1.08 kW	B
T6	30'	30'	1	TLC-LED-550	0.54 kW	B
		30'	1	TLC-LED-550	0.54 kW	C
T7-T8	30'	30'	1	TLC-LED-550	0.54 kW	C
T9-T10	30'	30'	2	TLC-LED-550	1.08 kW	B
		30'	2	TLC-LED-550	1.08 kW	C
T11-T12	30'	30'	2	TLC-LED-550	1.08 kW	C
16			60		52.04 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Turf Field	39.08 kW	36
B	Tennis 1-4	6.48 kW	12
C	Tennis 5-8	6.48 kW	12

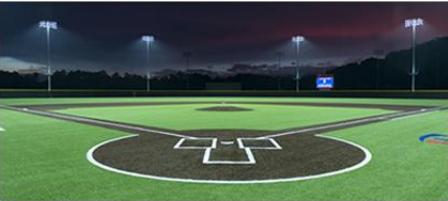
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	12
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	12
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	24
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	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							
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-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
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Football	Horizontal Illuminance	40.6	25	46	1.83	1.62	A	36
Home Bleachers	Horizontal	20.4	13	29	2.33	1.57	A	36
Property Spill Line	Horizontal Illuminance	0.01	0	0.05	0.00		A,B,C	60
Property Spill Line	Max Vertical Illuminance Metric	0.02	0	0.19	0.00		A,B,C	60
Property Spill Line (Cd)	Max Candela Metric	345	0	2915	0.00		A,B,C	60
Soccer	Horizontal Illuminance	41.5	25	50	1.99	1.66	A	36
Tennis 1-3	Horizontal Illuminance	41.7	28	56	1.99	1.49	B	12
Tennis 1-4	Horizontal Illuminance	33.7	0	56	416.68		B	12
Tennis 5-8	Horizontal Illuminance	44	30	56	1.88	1.47	C	12
Turf Area	Horizontal	40.1	15	56	3.67	2.67	A	36
Visitor Bleachers	Horizontal	11.2	6	30	5.47	1.86	A	36

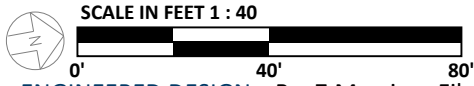
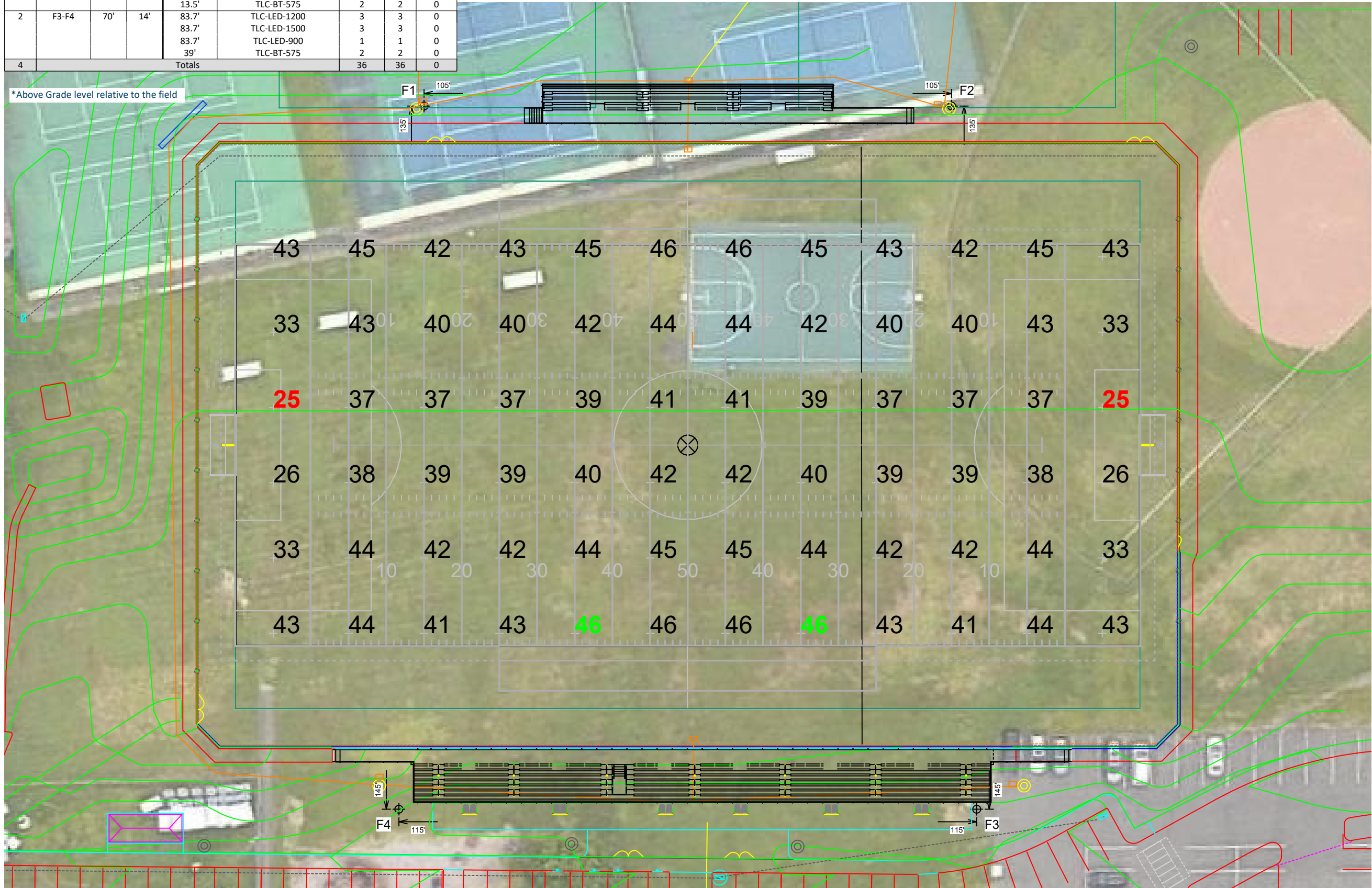
From Hometown to Professional



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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	F1-F2	70'	-2'	68.3'	TLC-LED-1200	3	3	0
				68.3'	TLC-LED-1500	3	3	0
				68.3'	TLC-LED-900	1	1	0
				13.5'	TLC-BT-575	2	2	0
2	F3-F4	70'	14'	83.7'	TLC-LED-1200	3	3	0
				83.7'	TLC-LED-1500	3	3	0
				83.7'	TLC-LED-900	1	1	0
				39'	TLC-BT-575	2	2	0
4	Totals					36	36	0

*Above Grade level relative to the field



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

South Windsor HS Tennis And Turf

South Windsor, CT

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
Guaranteed Average	40
Scan Average	40.59
Maximum	46
Minimum	25
Avg/Min	1.60
Guaranteed Max/Min	2
Max/Min	1.83
UG (adjacent pts)	1.48
CU	0.55
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	39.08 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.



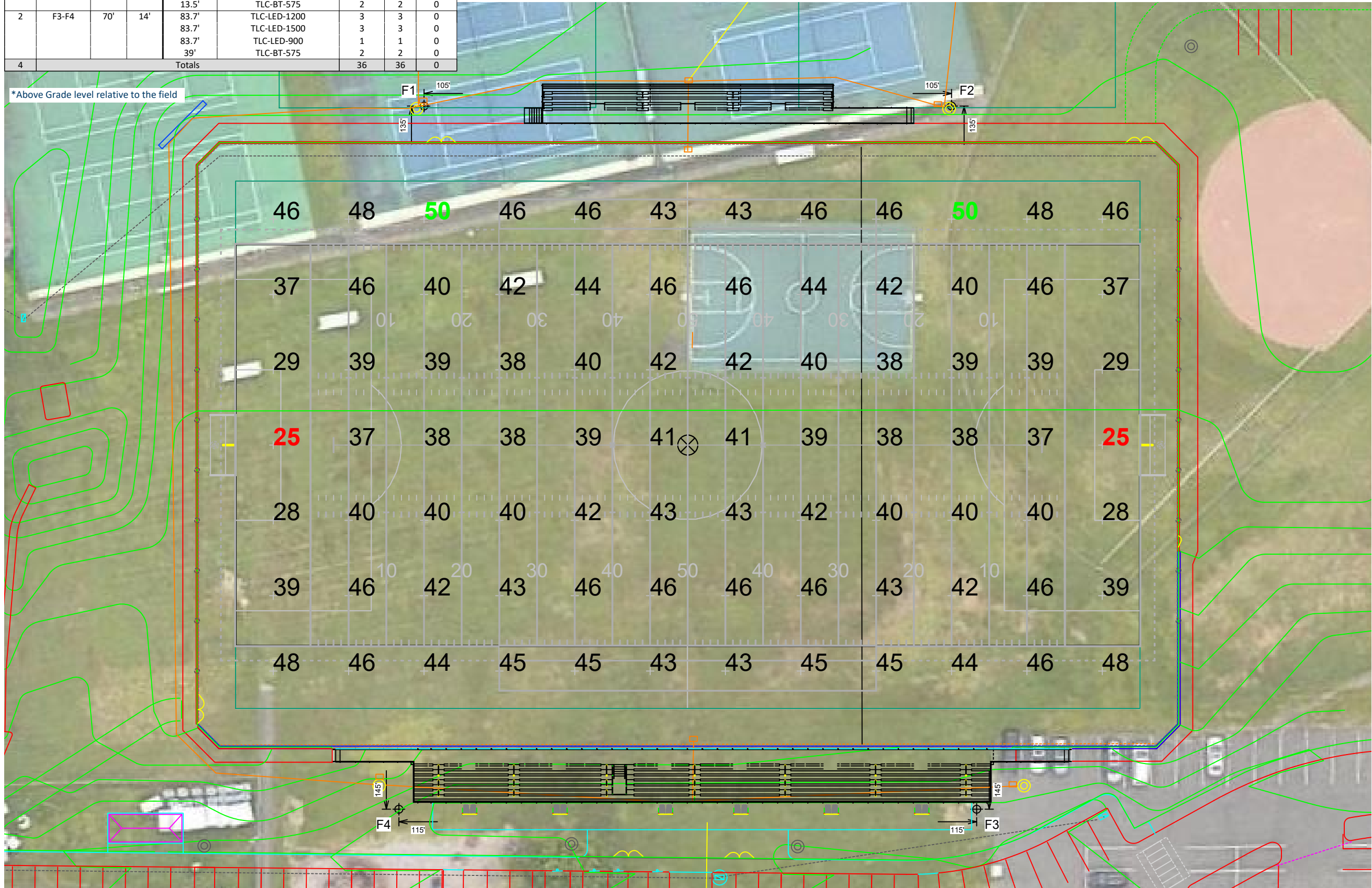
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ILLUMINATION SUMMARY

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	70'	-2'	68.3'	TLC-LED-1200	3	3	0
				68.3'	TLC-LED-1500	3	3	0
				68.3'	TLC-LED-900	1	1	0
				13.5'	TLC-BT-575	2	2	0
2	F3-F4	70'	14'	83.7'	TLC-LED-1200	3	3	0
				83.7'	TLC-LED-1500	3	3	0
				83.7'	TLC-LED-900	1	1	0
				39'	TLC-BT-575	2	2	0
4	Totals					36	36	0

*Above Grade level relative to the field



South Windsor HS Tennis And Turf

South Windsor, CT

Grid Summary	
Name	Soccer
Size	360' x 210'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average	40
Scan Average	41.54
Maximum	50
Minimum	25
Avg/Min	1.67
Guaranteed Max/Min	2
Max/Min	1.99
UG (adjacent pts)	1.49
CU	0.66
No. of Points	84
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	39.08 kW

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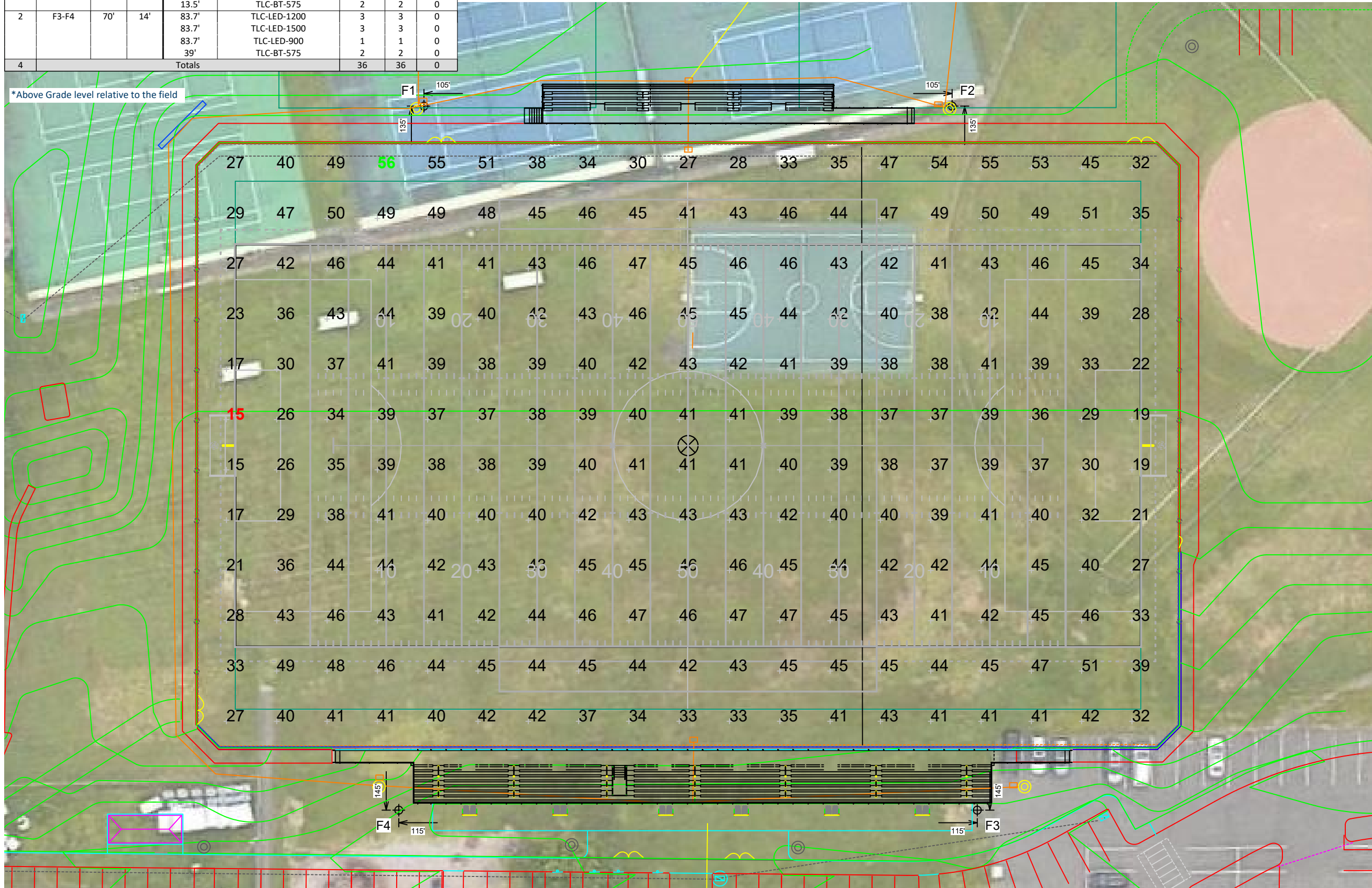
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Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	70'	-2'	68.3'	TLC-LED-1200	3	3	0
				68.3'	TLC-LED-1500	3	3	0
				68.3'	TLC-LED-900	1	1	0
				13.5'	TLC-BT-575	2	2	0
2	F3-F4	70'	14'	83.7'	TLC-LED-1200	3	3	0
				83.7'	TLC-LED-1500	3	3	0
				83.7'	TLC-LED-900	1	1	0
				39'	TLC-BT-575	2	2	0
4	Totals					36	36	0

*Above Grade level relative to the field



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

South Windsor HS Tennis And Turf

South Windsor, CT

Grid Summary	
Name Turf Area Size 360' x 160' Spacing 20.0' x 20.0' Height 3.0' above grade	

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average	40.06
Maximum	56
Minimum	15
Avg/Min	2.64
Max/Min	3.67
UG (adjacent pts)	1.74
CU	0.77
No. of Points	228
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	39.08 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	70'	-2'	68.3'	TLC-LED-1200	3	3	0
				68.3'	TLC-LED-1500	3	3	0
				68.3'	TLC-LED-900	1	1	0
				13.5'	TLC-BT-575	2	2	0
2	F3-F4	70'	14'	83.7'	TLC-LED-1200	3	3	0
				83.7'	TLC-LED-1500	3	3	0
				83.7'	TLC-LED-900	1	1	0
				39'	TLC-BT-575	2	2	0
4	Totals					36	36	0

*Above Grade level relative to the field



South Windsor HS Tennis And Turf

South Windsor, CT

Grid Summary	
Name	Home Bleachers
Size	360' x 160'
Spacing	10.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average	20.39
Maximum	29
Minimum	13
Avg/Min	1.61
Max/Min	2.33
UG (adjacent pts)	1.51
CU	0.02
No. of Points	46
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	39.08 kW

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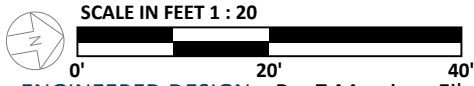
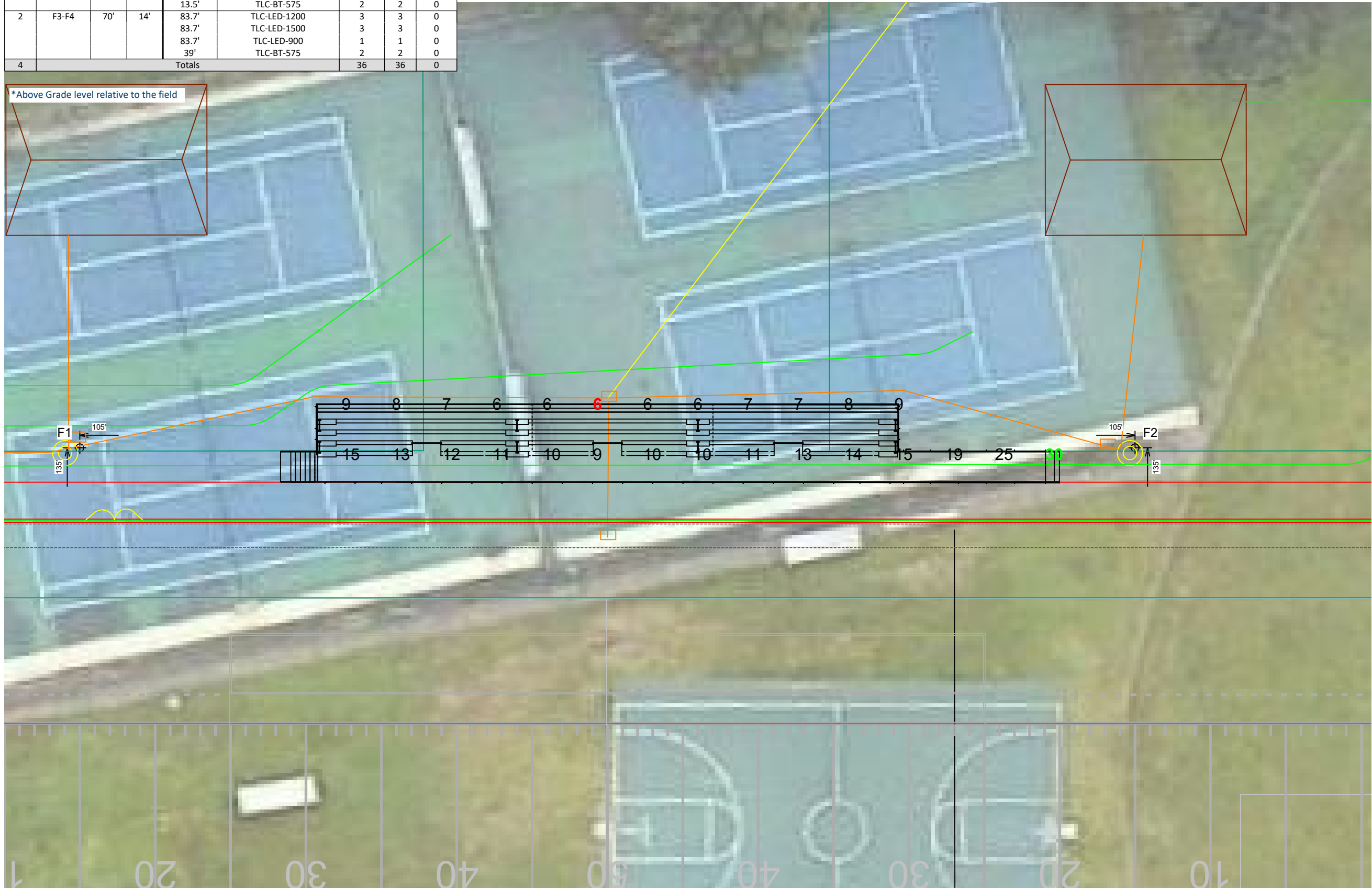
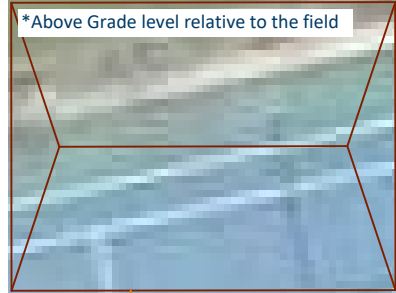


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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	70'	-2'	68.3'	TLC-LED-1200	3	3	0
				68.3'	TLC-LED-1500	3	3	0
				68.3'	TLC-LED-900	1	1	0
				13.5'	TLC-BT-575	2	2	0
2	F3-F4	70'	14'	83.7'	TLC-LED-1200	3	3	0
				83.7'	TLC-LED-1500	3	3	0
				83.7'	TLC-LED-900	1	1	0
				39'	TLC-BT-575	2	2	0
4	Totals					36	36	0



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

South Windsor HS Tennis And Turf

South Windsor, CT

Grid Summary	
Name	Visitor Bleachers
Size	360' x 160'
Spacing	10.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average	11.17
Maximum	30
Minimum	6
Avg/Min	2.01
Max/Min	5.47
UG (adjacent pts)	1.73
CU	0.01
No. of Points	27
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	39.08 kW

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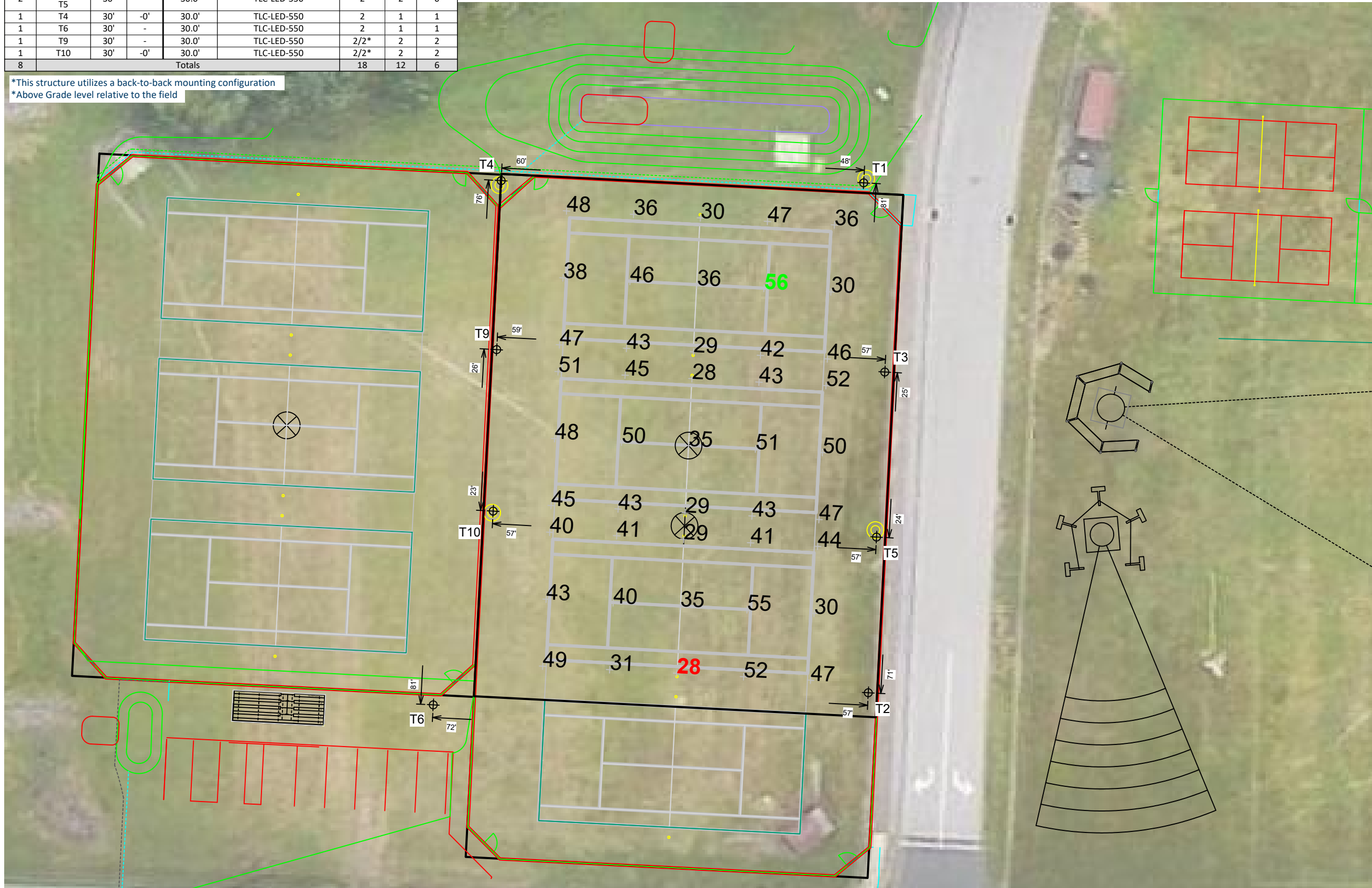
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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T1	30'	-	30.0'	TLC-LED-550	1	1	0
1	T2	30'	-	30.0'	TLC-LED-550	1	1	0
2	T3 T5	30'	-	30.0'	TLC-LED-550	2	2	0
1	T4	30'	-0'	30.0'	TLC-LED-550	2	1	1
1	T6	30'	-	30.0'	TLC-LED-550	2	1	1
1	T9	30'	-	30.0'	TLC-LED-550	2/2*	2	2
1	T10	30'	-0'	30.0'	TLC-LED-550	2/2*	2	2
8	Totals					18	12	6

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



South Windsor HS Tennis And Turf

South Windsor, CT

Grid Summary	
Name	Tennis 1-3
Size	3 Court - 12' Spacing
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average	40
Scan Average	41.67
Maximum	56
Minimum	28
Avg/Min	1.48
Guaranteed Max/Min	2
Max/Min	1.99
UG (adjacent pts)	0.00
CU	0.98
No. of Points	45
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	12
Total Load	6.48 kW

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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T1	30'	-	30.0'	TLC-LED-550	1	1	0
1	T2	30'	-	30.0'	TLC-LED-550	1	1	0
2	T3 T5	30'	-	30.0'	TLC-LED-550	2	2	0
1	T4	30'	-0'	30.0'	TLC-LED-550	2	1	1
1	T6	30'	-	30.0'	TLC-LED-550	2	1	1
1	T9	30'	-	30.0'	TLC-LED-550	2/2*	2	2
1	T10	30'	-0'	30.0'	TLC-LED-550	2/2*	2	2
8	Totals					18	12	6

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



South Windsor HS Tennis And Turf

South Windsor, CT

Grid Summary	
Name	Tennis 1-4
Size	4 Court - 12' Spacing
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Scan Average	33.72
Maximum	56
Minimum	0
Avg/Min	251.70
Max/Min	416.68
UG (adjacent pts)	0.00
CU	1.00
No. of Points	60
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	12
Total Load	6.48 kW

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QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T4	30'	-0'	30.0'	TLC-LED-550	2	1	1
1	T6	30'	-	30.0'	TLC-LED-550	2	1	1
2	T7-T8	30'	-	30.0'	TLC-LED-550	1	1	0
1	T9	30'	-	30.0'	TLC-LED-550	2/2*	2	2
1	T10	30'	-0'	30.0'	TLC-LED-550	2/2*	2	2
2	T11-T12	30'	-	30.0'	TLC-LED-550	2	2	0
8	Totals					18	12	6

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



South Windsor HS Tennis And Turf

South Windsor, CT

Grid Summary	
Name	Tennis 5-8
Size	3 Court - 12' Spacing
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average	40
Scan Average	43.99
Maximum	56
Minimum	30
Avg/Min	1.48
Guaranteed Max/Min	2
Max/Min	1.88
UG (adjacent pts)	0.00
CU	1.00
No. of Points	45
LUMINAIRE INFORMATION	
Applied Circuits	C
No. of Luminaires	12
Total Load	6.48 kW

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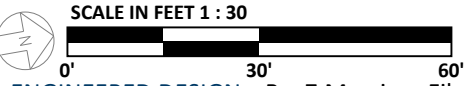
Installation Requirements: Results assume $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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ILLUMINATION SUMMARY



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

South Windsor HS Tennis And Turf

South Windsor, CT

Grid Summary	
Name	Property Spill Line
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	0.0059
Maximum	0.05
Minimum	0.00
CU	0.00
No. of Points	210
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C
No. of Luminaires	60
Total Load	52.04 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.



South Windsor HS Tennis And Turf

South Windsor, CT

Grid Summary		
Name	Property Spill Line	
Spacing	30.0' x 30.0'	
Height	3.0' above grade	

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average	0.0059
Maximum	0.05
Minimum	0.00
CU	0.00
No. of Points	210
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C
No. of Luminaires	60
Total Load	52.04 kW

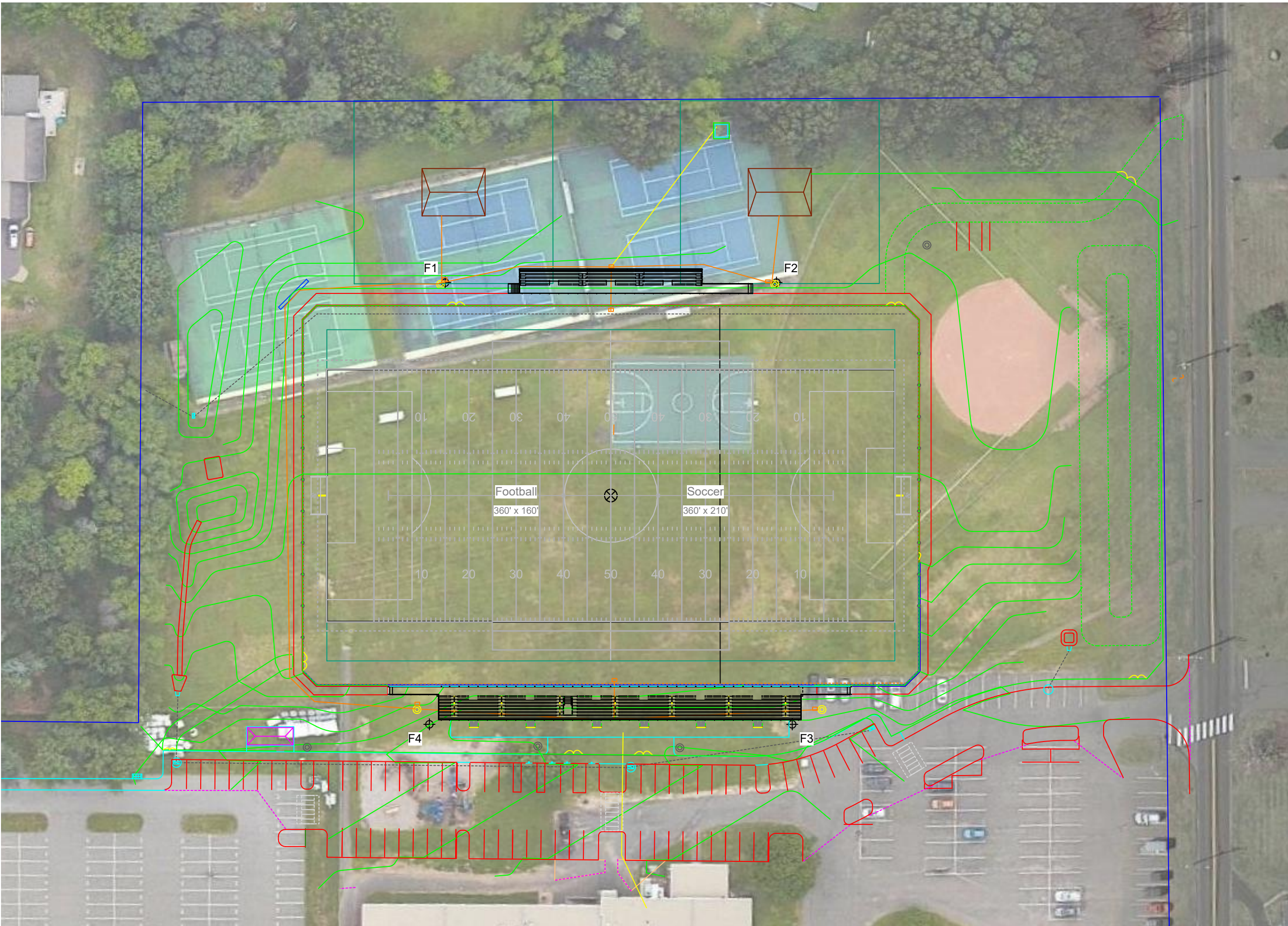
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.





South Windsor HS Tennis And Turf

South Windsor, CT

Equipment Layout

INCLUDES:

- Football
- Soccer
- Tennis 1-3
- Tennis 1-4
- Tennis 5-8

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

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
2	F1-F2	70'	-2'	68.3'	TLC-LED-1200	3
				68.3'	TLC-LED-1500	3
				68.3'	TLC-LED-900	1
				13.5'	TLC-BT-575	2
2	F3-F4	70'	14'	83.7'	TLC-LED-1200	3
				83.7'	TLC-LED-1500	3
				83.7'	TLC-LED-900	1
				39'	TLC-BT-575	2
1	T1	30'	-	30.0'	TLC-LED-550	1
1	T2	30'	-	30.0'	TLC-LED-550	1
2	T3	30'	-	30.0'	TLC-LED-550	2
1	T4	30'	-0'	30.0'	TLC-LED-550	2
1	T6	30'	-	30.0'	TLC-LED-550	2
2	T7-T8	30'	-	30.0'	TLC-LED-550	1
1	T9	30'	-0'	30.0'	TLC-LED-550	2/2*
1	T10	30'	-0'	30.0'	TLC-LED-550	2/2*
2	T11-T12	30'	-	30.0'	TLC-LED-550	2
16	Totals					60

*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	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-BT-575	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-1500	3.2	3.0	2.8	2.4	1.9	1.8	1.4
TLC-LED-550	5.2	4.9	4.5	3.9	3.1	2.9	2.3



South Windsor HS Tennis And Turf

South Windsor, CT

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INCLUDES:

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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
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3



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EQUIPMENT LAYOUT