



# FIELD LIGHTS FOR MARIN CATHOLIC HIGH SCHOOL

675 SIR FRANCIS DRAKE BLVD.  
KENTFIELD, CA 94904

BRW PROJECT NO. 215164.00  
DATE: MAY 3, 2024  
DESIGN REVIEW AND USE PERMIT SUBMITTAL

**OWNER** MARIN CATHOLIC HIGH SCHOOL, ARCHDIOCESE OF SAN FRANCISCO  
1301 POST STREET, SUITE 102  
SAN FRANCISCO, CA 94109  
(415) 464-3223

**ARCHITECT** BROWN REYNOLDS WATFORD ARCHITECTS, INC.  
1620 MONTGOMERY STREET, SUITE 320  
SAN FRANCISCO, CA 94111  
(415) 749-2670, FAX (415) 749-2672

**EGRESS LIGHTING ENGINEER** THE ENGINEERING ENTERPRISE  
1305 MARINA VILLAGE PARKWAY  
ALAMEDA, CA 94501  
(510) 769-7600, FAX (510) 769-1261

**FIELD LIGHTING ENGINEER** MUSCO LIGHTING  
3420 COACH LN  
CAMERON PARK, CA 95682  
(530) 672-9500



FIELD LIGHTS FOR  
MARIN CATHOLIC HIGH SCHOOL  
675 SIR FRANCIS DRAKE BLVD  
KENTFIELD, CA



05.03.24  
PROJECT NO. 215164.00  
DESIGN REVIEW AND  
USE PERMIT SUBMITTAL

T1.1

## PROJECT DESCRIPTION

INSTALLATION OF FIELD LIGHTS

## INDEX OF DRAWINGS

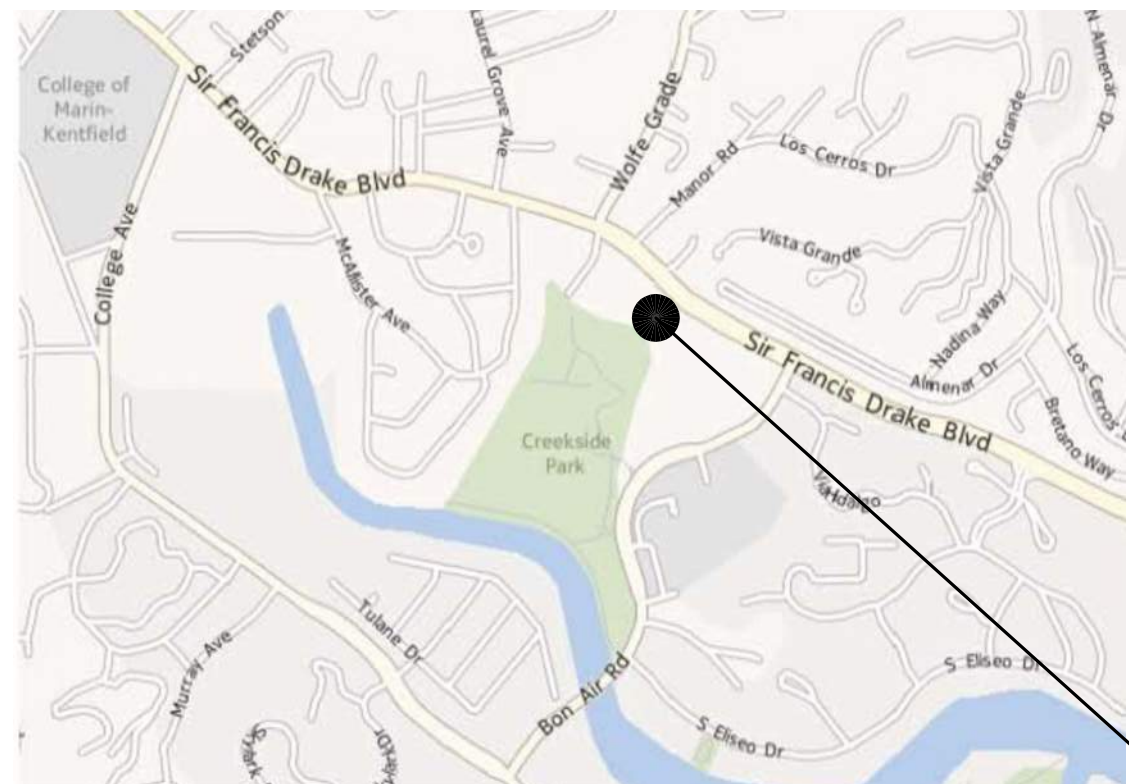
### CODE INFORMATION

BUILDING: 2022 CALIFORNIA BUILDING CODE  
MECHANICAL: 2022 CALIFORNIA MECHANICAL CODE  
PLUMBING: 2022 CALIFORNIA PLUMBING CODE  
ELECTRICAL: 2022 CALIFORNIA ELECTRICAL CODE  
ENERGY: 2022 CALIFORNIA ENERGY CODE  
FIRE: 2022 INTERNATIONAL FIRE CODE

### PROJECT INFORMATION

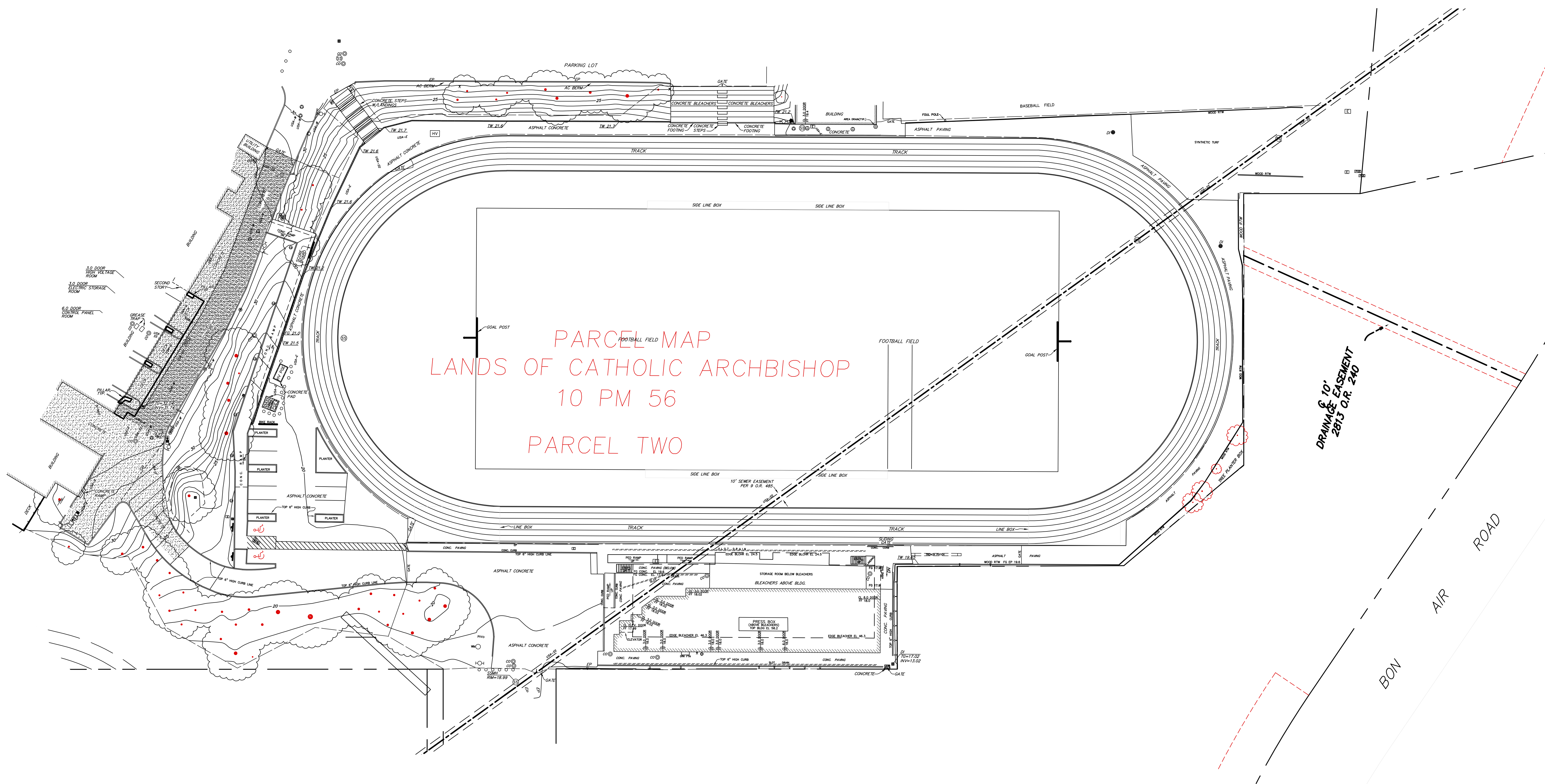
PROJECT ADDRESS 675 SIR FRANCIS DRAKE BLVD  
APN NUMBER 022-010-35  
ZONE R1/ B2: RESIDENTIAL, SINGLE FAMILY  
GENERAL PLAN PF-SF5: LOW DENSITY RESIDENTIAL, PUBLIC LOT  
AREA 18.469 ACRES (804,515 SF)  
CURRENT USE HIGH SCHOOL

### VICINITY MAP



675 SIR FRANCIS DRAKE BLVD  
KENTFIELD, CA 94904

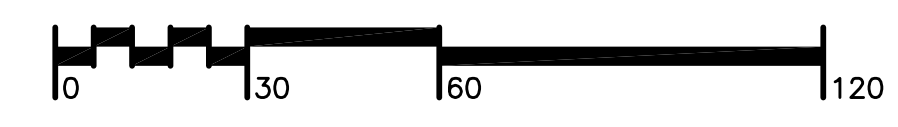
- T1.1 TITLE SHEET
- C1.0 TOPOGRAPHIC SURVEY
- A1.0 SITE PLAN
  - A1.1 ENLARGED SITE PLAN / LIGHT STANDARD LOCATOR
  - A1.2 EXTERIOR ELEVATION / SITE SECTIONS
- E1.1 EXISTING SITE LIGHTING PLAN / PEDESTRIAN EGRESS LIGHTING
- MUSCO LIGHTING DESIGN DATED APRIL 29, 2024**
- E1.2 MUSCO POLE ELEVATION AND LIGHT FIXTURE DETAIL
- E1.3 PROJECT SUMMARY
  - ILLUMINATION SUMMARY - B: Football
  - ILLUMINATION SUMMARY - C: Track
  - ILLUMINATION SUMMARY - D: Home Bleachers
- E1.4 ILLUMINATION SUMMARY - A: Home Egress
  - ILLUMINATION SUMMARY - B: Away Bleachers
  - ILLUMINATION SUMMARY - C: Away Egress
  - ILLUMINATION SUMMARY - D: Bon Air Road
- E1.5 ILLUMINATION SUMMARY - A: Bon Air Road
  - ILLUMINATION SUMMARY - B: Bon Air Road
  - ILLUMINATION SUMMARY - C: Tidal Marsh Spill
  - ILLUMINATION SUMMARY - D: Tidal Marsh Spill
- E1.6 ILLUMINATION SUMMARY - A: Tidal Marsh Spill
  - ILLUMINATION SUMMARY - B: Sir Francis Drake Blvd Spill
  - ILLUMINATION SUMMARY - C: Sir Francis Drake Blvd Spill
  - ILLUMINATION SUMMARY - D: Sir Francis Drake Blvd Spill
- E1.7 ILLUMINATION SUMMARY - A: Creekside Park Spill
  - ILLUMINATION SUMMARY - B: Creekside Park Spill
  - ILLUMINATION SUMMARY - C: Creekside Park Spill
  - ILLUMINATION SUMMARY - D: Blanket Grid
- E1.8 EQUIPMENT LAYOUT
- 13 TOTAL SHEETS



PARCEL MAP  
LANDS OF CATHOLIC ARCHBISHOP  
10 PM 56  
PARCEL TWO

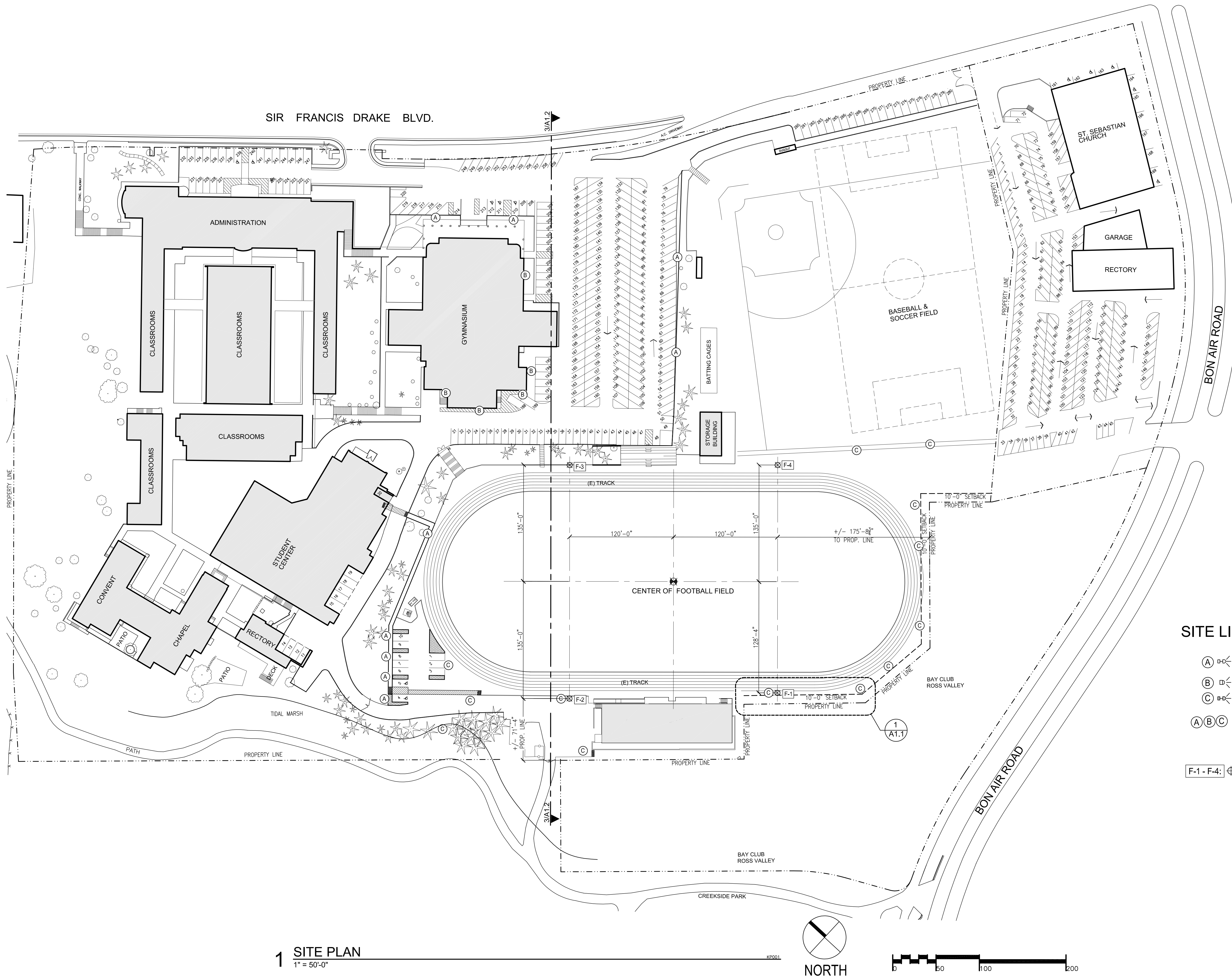
1 TOPOGRAPHICAL SURVEY PLAN  
1" = 30'-0"

KP001



FIELD LIGHTS FOR  
MARIN CATHOLIC HIGH SCHOOL  
675 SIR FRANCIS DRAKE BLVD  
KENTFIELD, CA





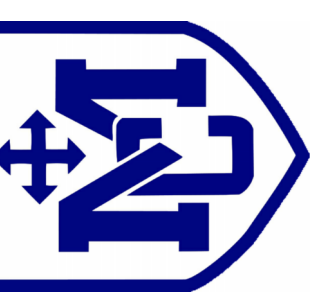
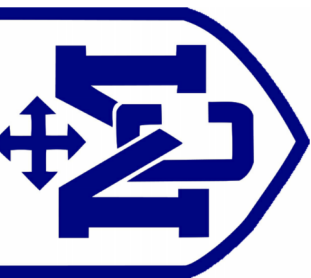
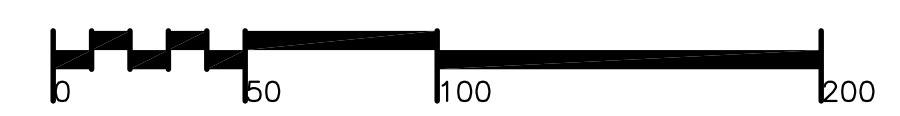
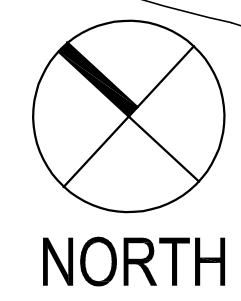
SIR FRANCIS DRAKE BLVD.

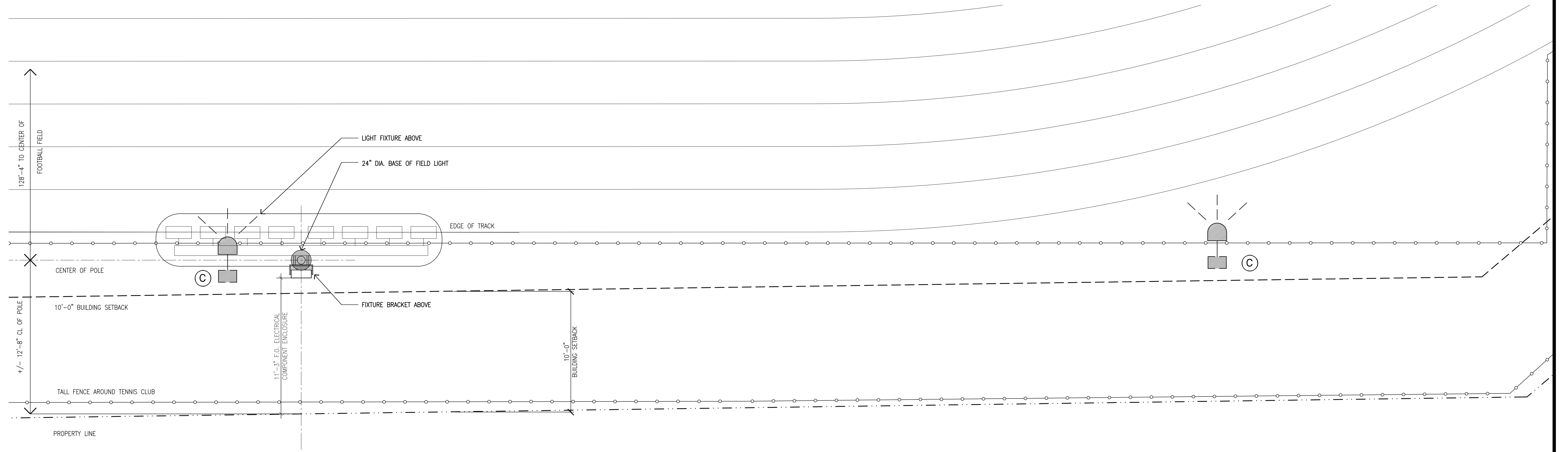
BON AIR ROAD

**SITE LIGHTING LEGEND**

- (A) ☐ EXISTING POLE LIGHT
- (B) ☐ EXISTING WALL PACK LIGHT
- (C) ☐ NEW POLE LIGHT
- (A)(B)(C) EGRESS AND PARKING LOT LIGHTS:  
SEE E1.1 LIGHTING SCHEDULE FOR DESCRIPTION. SEE E1.1 SITE LIGHTING PLAN FOR HORIZONTAL FOOTCANDLES
- (F-1 - F-4) ☐ FIELD LIGHTS  
SEE E1.2 FOR POLE AND LIGHT FIXTURE DESCRIPTION SEE E1.3 THRU E1.8 FOR ILLUMINATION SUMMARY OF EACH AREA

**1 SITE PLAN**  
1" = 50'-0"



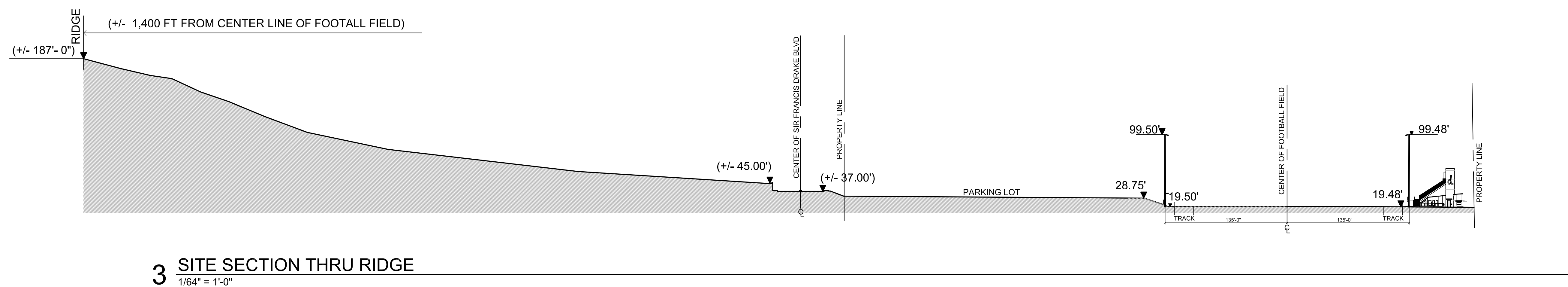
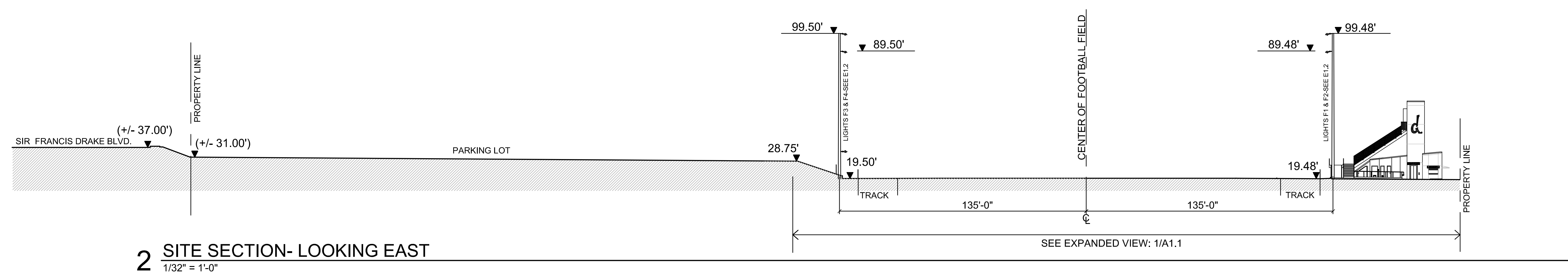
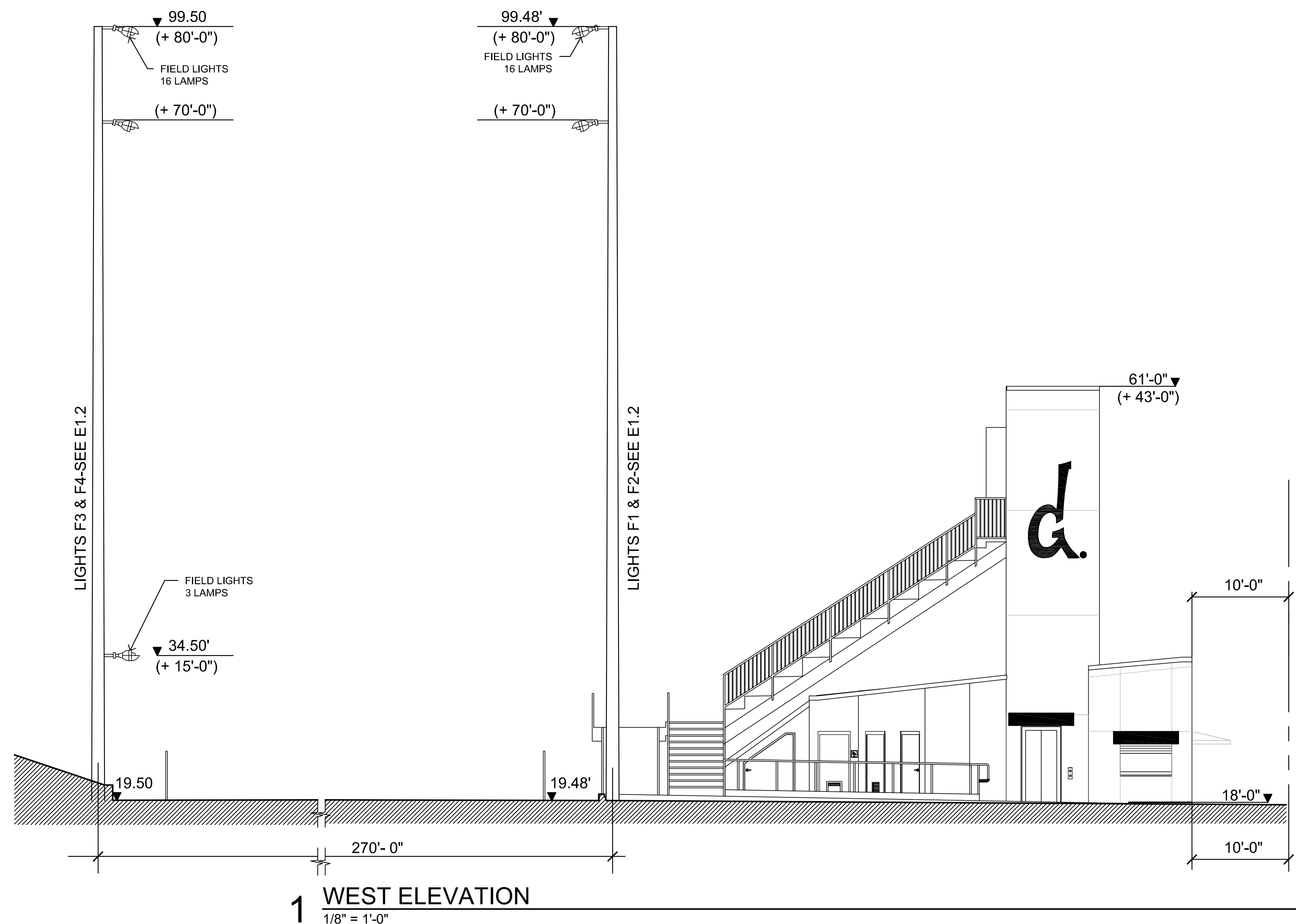


1 ENLARGED SITE PLAN DETAIL  
 1/4" = 1'-0"



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 KENTFIELD, CA







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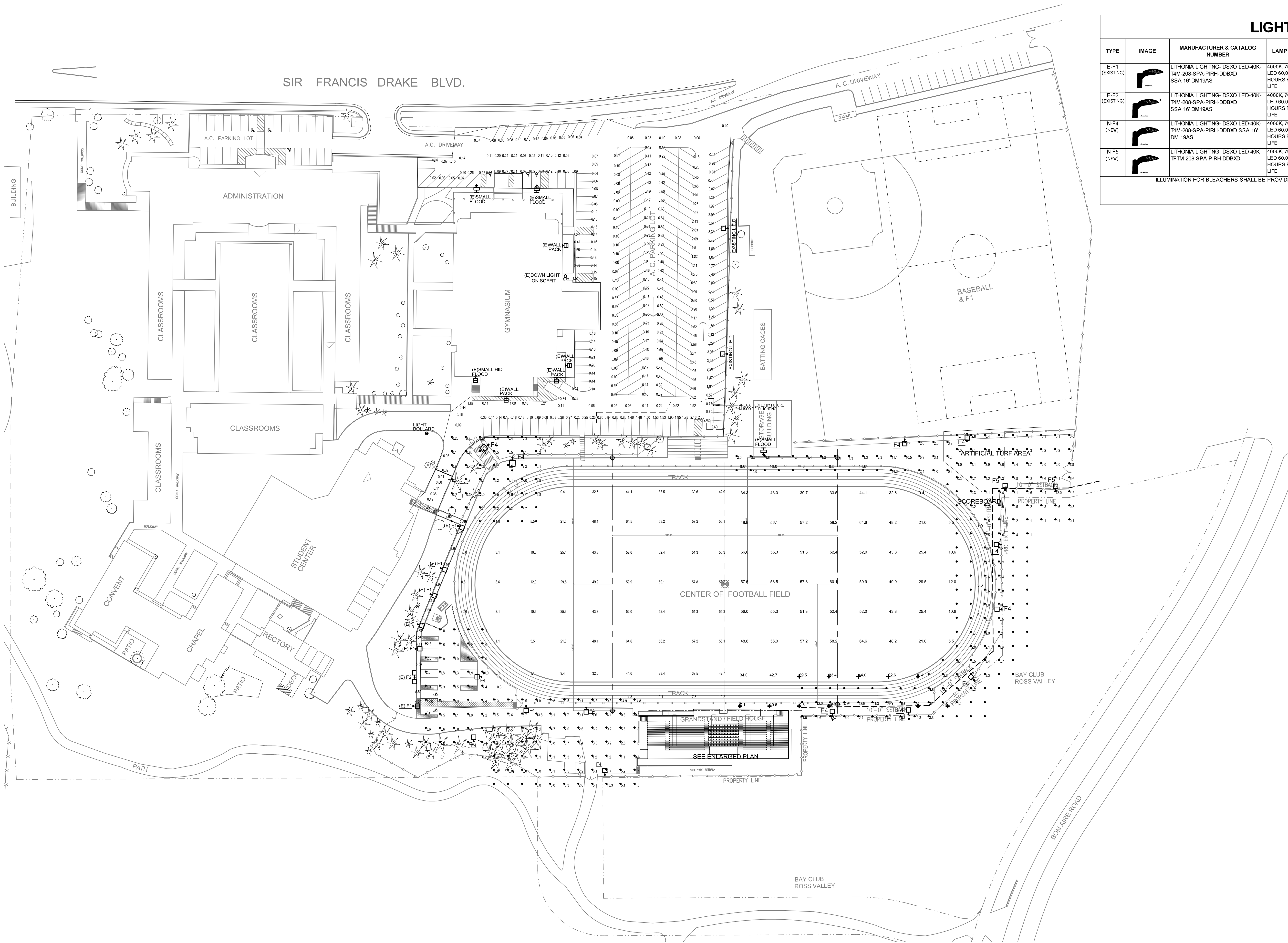
05.03.24  
PROJECT NO. 215164.00  
DESIGN REVIEW AND  
USE PERMIT SUBMITTAL

E1.1  
SITE LIGHTING /  
PEDESTRIAN EGRESS

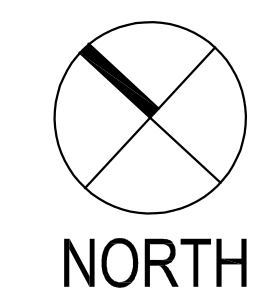
**LIGHTING SCHEDULE**

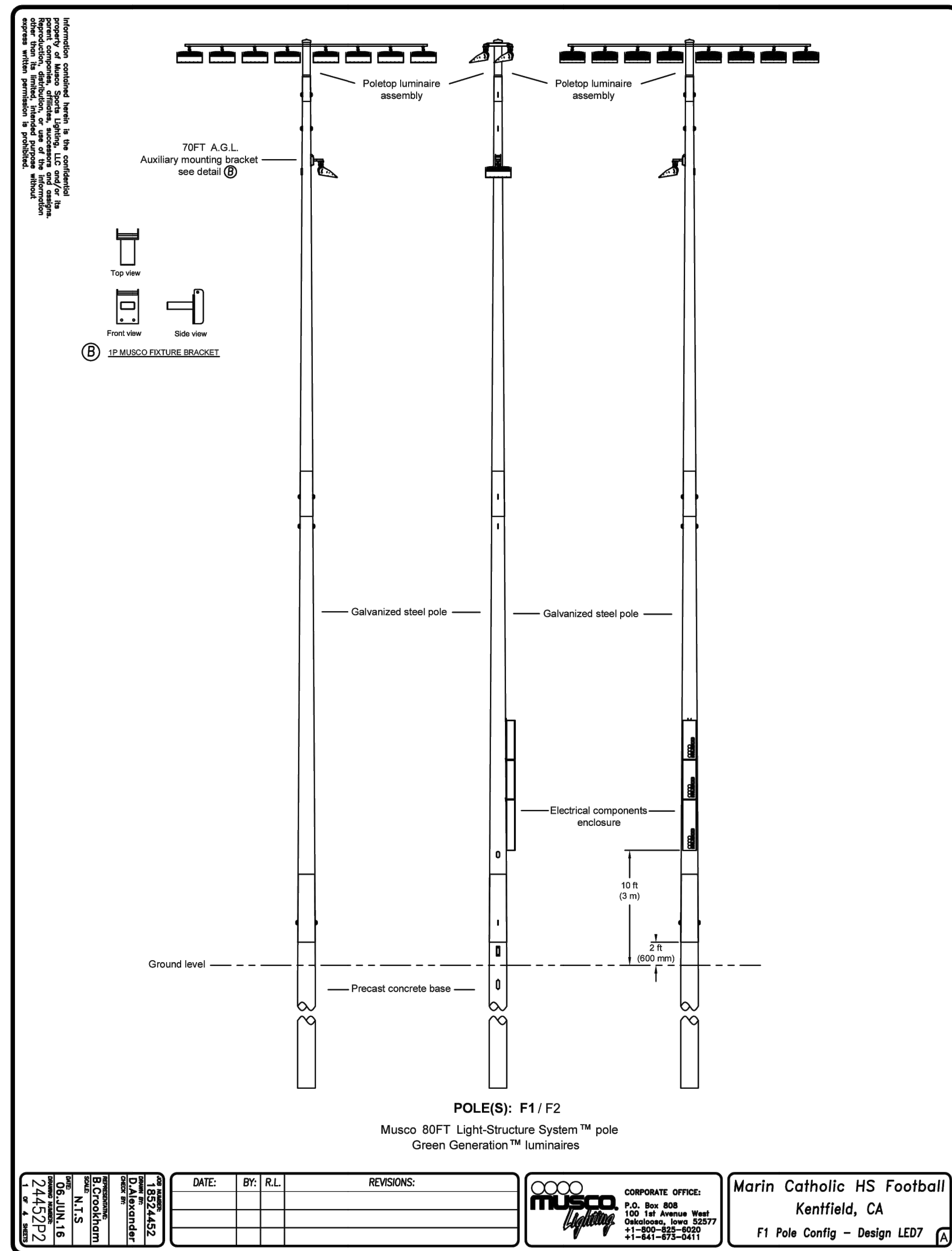
TYPE	IMAGE	MANUFACTURER & CATALOG NUMBER	LAMP TYPE	WATTS	VOLTAGE	DESCRIPTION
E-F1 (EXISTING)		LITHONIA LIGHTING- DSXD LED-40K-14M-208-SPA-PIRH-DOBXD SSA 16' DM19AS	4000K, 70CRI LED 60,000 HOURS RATED LIFE	138	208	16' POLE WITH ONE LUMINAIRE ON A 16'-0" POLE
E-F2 (EXISTING)		LITHONIA LIGHTING- DSXD LED-40K-14M-208-SPA-PIRH-DOBXD SSA 16' DM19AS	4000K, 70CRI LED 60,000 HOURS RATED LIFE	276	208	16' POLE WITH TWO LUMINAIRES AT 180 DEGREES.
N-F4 (NEW)		LITHONIA LIGHTING- DSXD LED-40K-14M-208-SPA-PIRH-DOBXD SSA 16' DM19AS	4000K, 70CRI LED 60,000 HOURS RATED LIFE	138	208	16' POLE WITH ONE LUMINAIRE ON 16'-0" POLE
N-F5 (NEW)		LITHONIA LIGHTING- DSXD LED-40K-14M-208-SPA-PIRH-DOBXD SSA 16' DM19AS	4000K, 70CRI LED 60,000 HOURS RATED LIFE	138	208	SMILAR TO F1 BUT FORWARD THROW DISTRIBUTION

ILLUMINATION FOR BLEACHERS SHALL BE PROVIDED BY MUSCO. MUSCO SHALL PROVIDE LIGHTING LAYOUTS FOR APPROVAL.

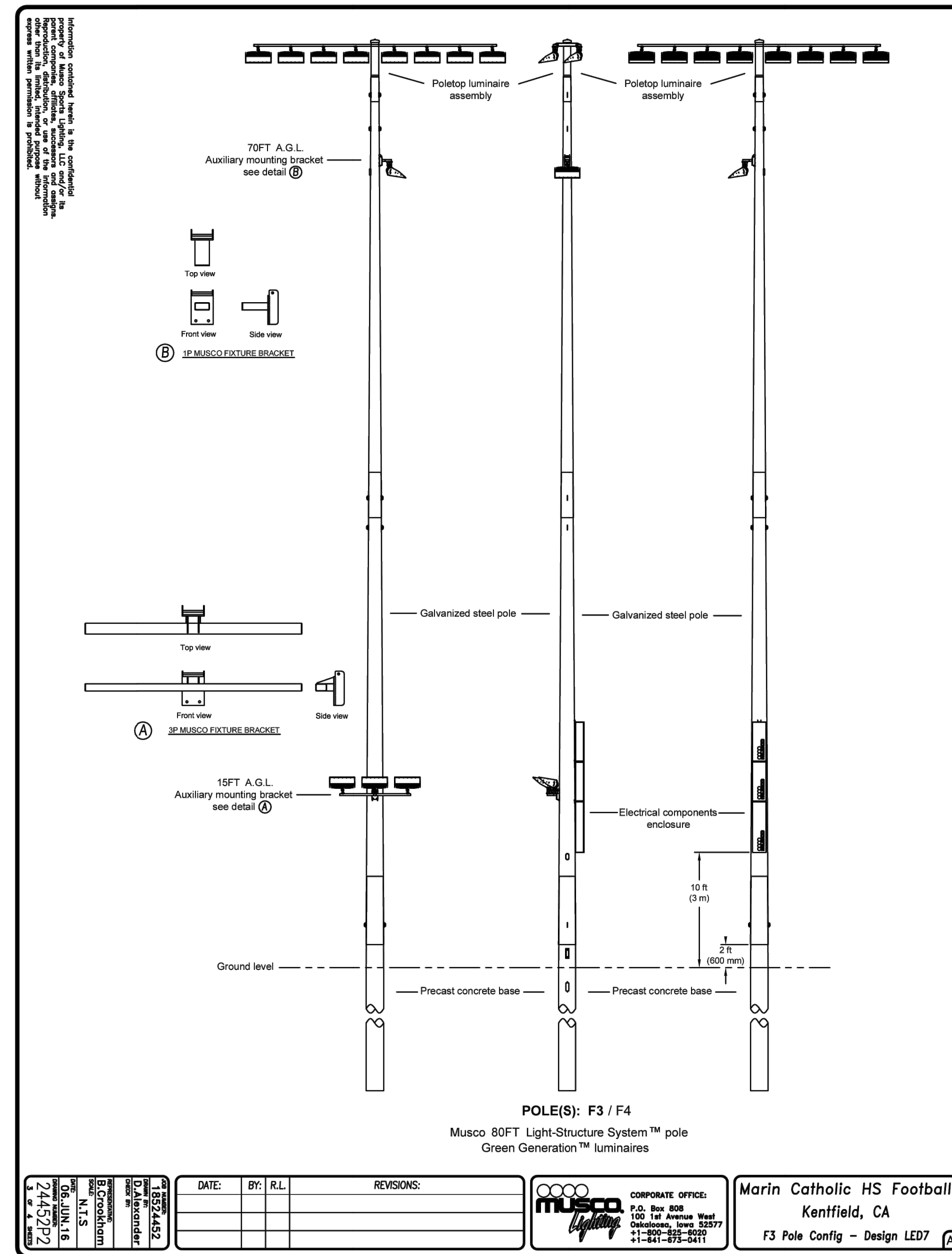


**1 SITE LIGHTING PLAN/ PEDESTRIAN EGRESS/ HORIZONTAL FOOT CANDLES** KP001  
1" = 50'-0"

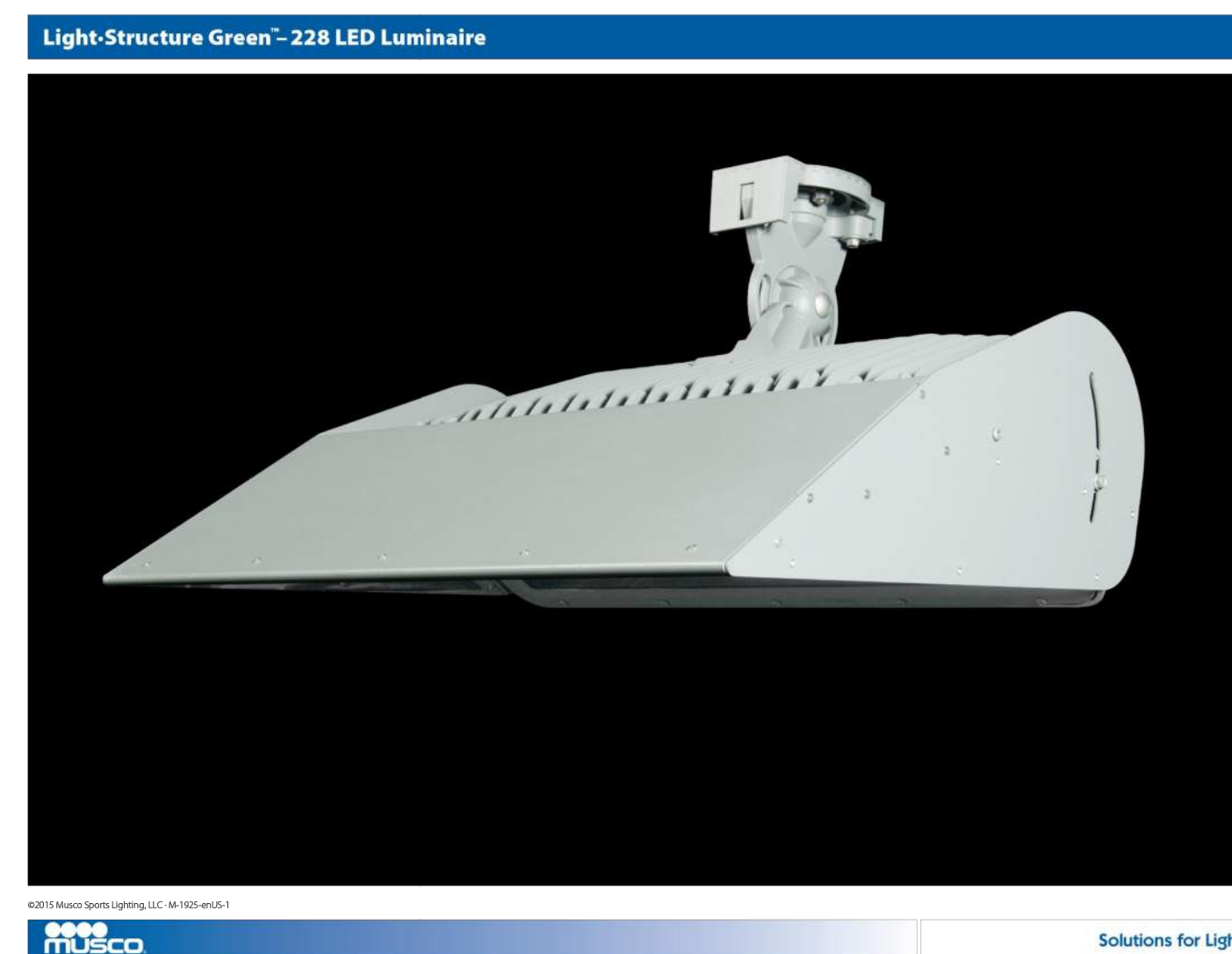




1 LIGHTS F1 & F2  
NTS



2 LIGHTS F3 & F4  
NTS



3 LIGHTS FIXTURE  
NTS







SCALE IN FEET 1:30  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) dimensions are relative to 0,0 reference point(s)  
**A: Home Egress**

**Marin Catholic High School Football**  
Kentfield, CA

Equipment List For Areas Shown								
Pole	Luminaires							
QTY	LOCATION	SIZE	GRADE	ABOVE GRADE	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1500	7	0	7
				70'	TLC-RGBW	1	1	0
				15.5'	TLC-BT-575	2	0	2
2	F3-F4	80'	-	80'	TLC-LED-1500	7	0	7
				70'	TLC-RGBW	2	2	0
				15.5'	TLC-BT-575	2	0	2
<b>Totals</b>						<b>42</b>	<b>6</b>	<b>36</b>

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

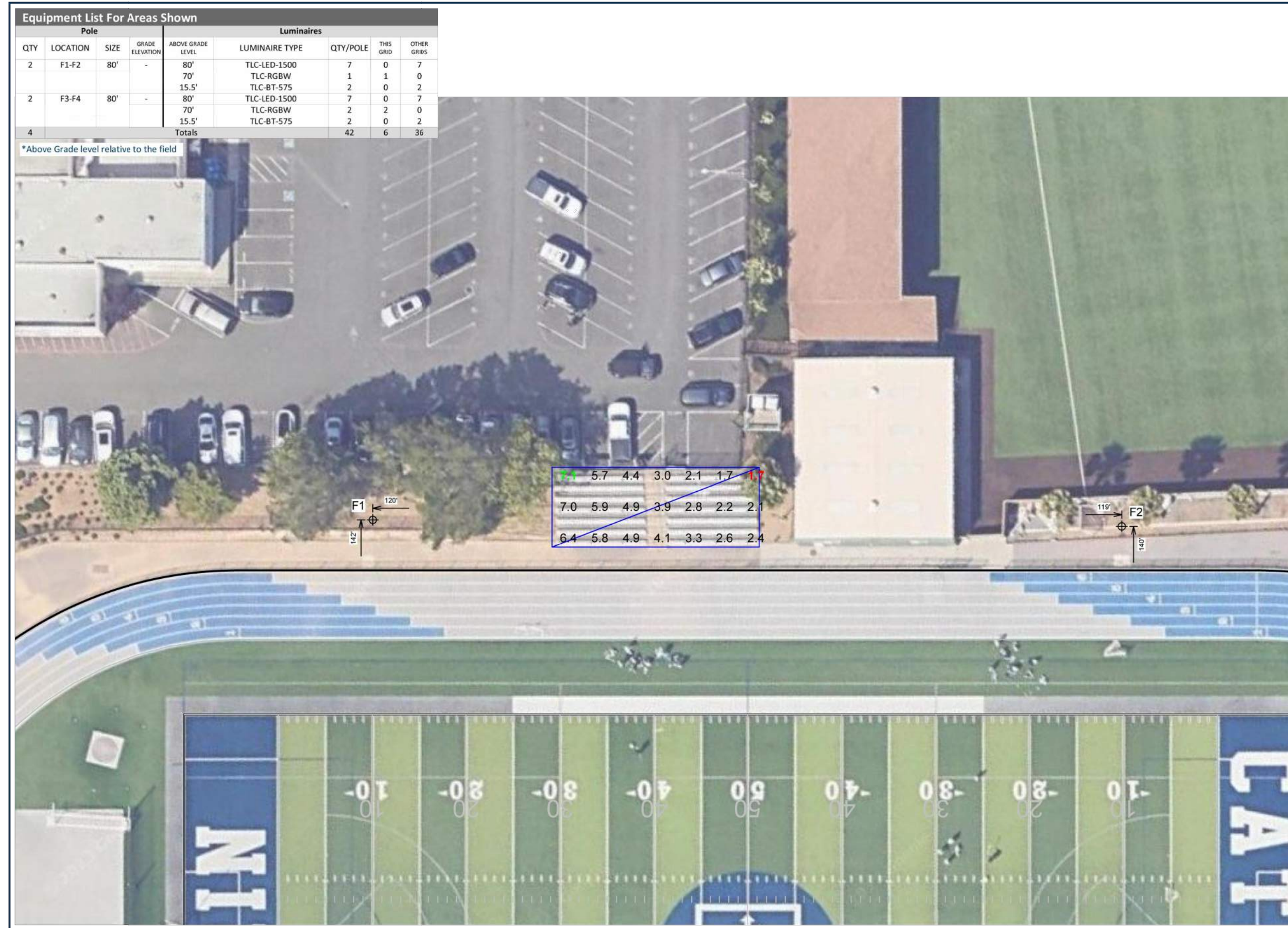
**Illumination Summary**  
Entire Grid  
Scan Average **5.58**  
Maximum 6  
Minimum 1  
Avg/Min 2.80  
Max/Min **4.98**  
UG (adjacent pole) 1.83  
CU 0.21  
No. of Points 89  
Applied Circuits B  
No. of Luminaires 8  
Total Load 3.84 kW

**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 (3m) of design locations.

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**ILLUMINATION SUMMARY**



SCALE IN FEET 1:30  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) dimensions are relative to 0,0 reference point(s)  
**B: Away Bleachers**

**Marin Catholic High School Football**  
Kentfield, CA

Equipment List For Areas Shown								
Pole	Luminaires							
QTY	LOCATION	SIZE	GRADE	ABOVE GRADE	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1500	7	0	7
				70'	TLC-RGBW	1	1	0
				15.5'	TLC-BT-575	2	0	2
2	F3-F4	80'	-	80'	TLC-LED-1500	7	0	7
				70'	TLC-RGBW	2	2	0
				15.5'	TLC-BT-575	2	0	2
<b>Totals</b>						<b>42</b>	<b>6</b>	<b>36</b>

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

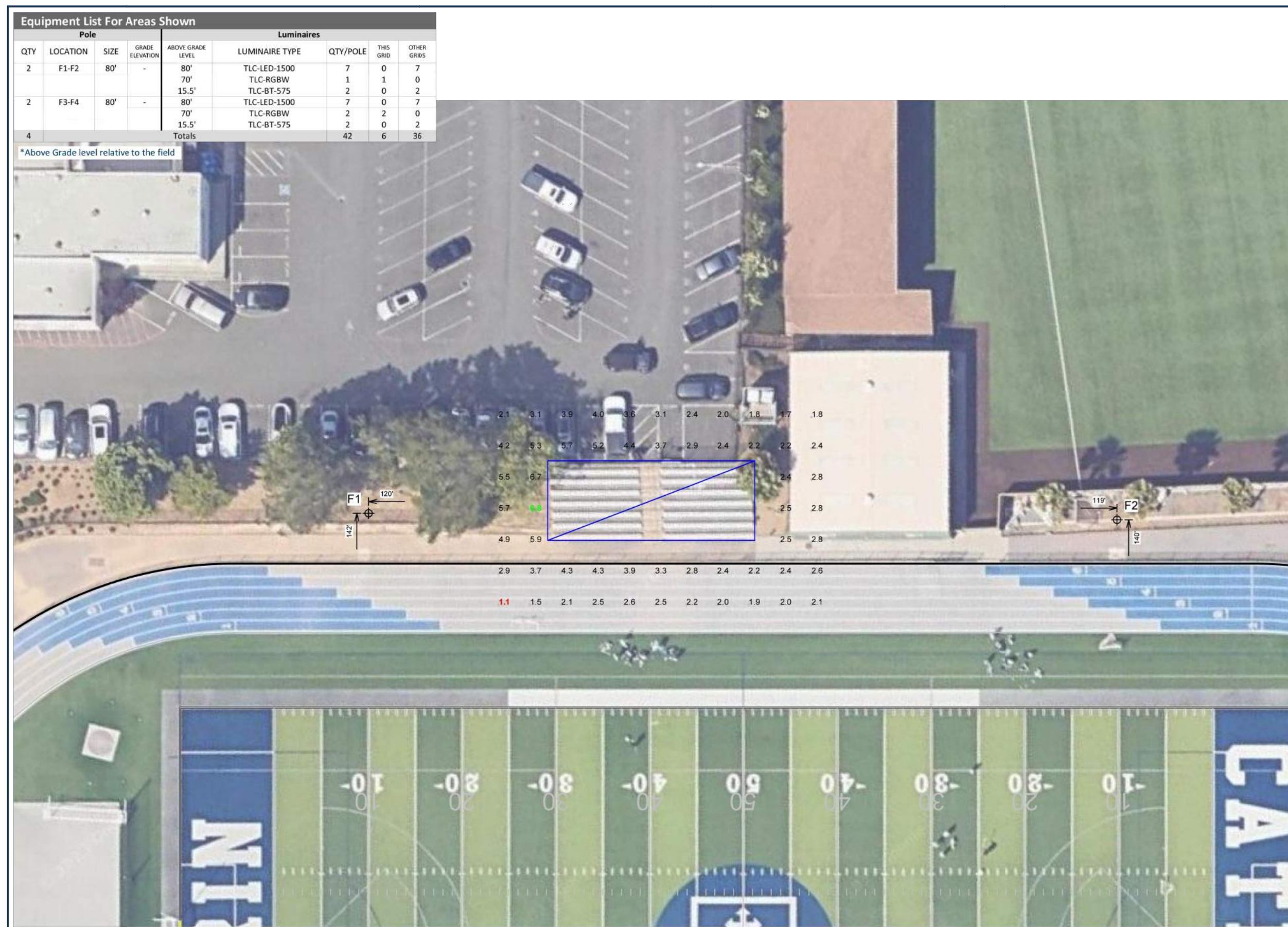
**Illumination Summary**  
Entire Grid  
Scan Average **4.84**  
Maximum 7  
Minimum 2  
Avg/Min 2.37  
Max/Min **4.23**  
UG (adjacent pole) 0.80  
CU 0.06  
No. of Points 21  
Applied Circuits B  
No. of Luminaires 6  
Total Load 3.84 kW

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



SCALE IN FEET 1:30  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) dimensions are relative to 0,0 reference point(s)  
**C: Away Egress**

**Marin Catholic High School Football**  
Kentfield, CA

Equipment List For Areas Shown								
Pole	Luminaires							
QTY	LOCATION	SIZE	GRADE	ABOVE GRADE	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1500	7	0	7
				70'	TLC-RGBW	1	1	0
				15.5'	TLC-BT-575	2	0	2
2	F3-F4	80'	-	80'	TLC-LED-1500	7	0	7
				70'	TLC-RGBW	2	2	0
				15.5'	TLC-BT-575	2	0	2
<b>Totals</b>						<b>42</b>	<b>6</b>	<b>36</b>

**Grid Summary**  
Name Away Egress  
Size 360' x 160'  
Spacing 10.0' x 10.0'  
Height 3.0' above grade

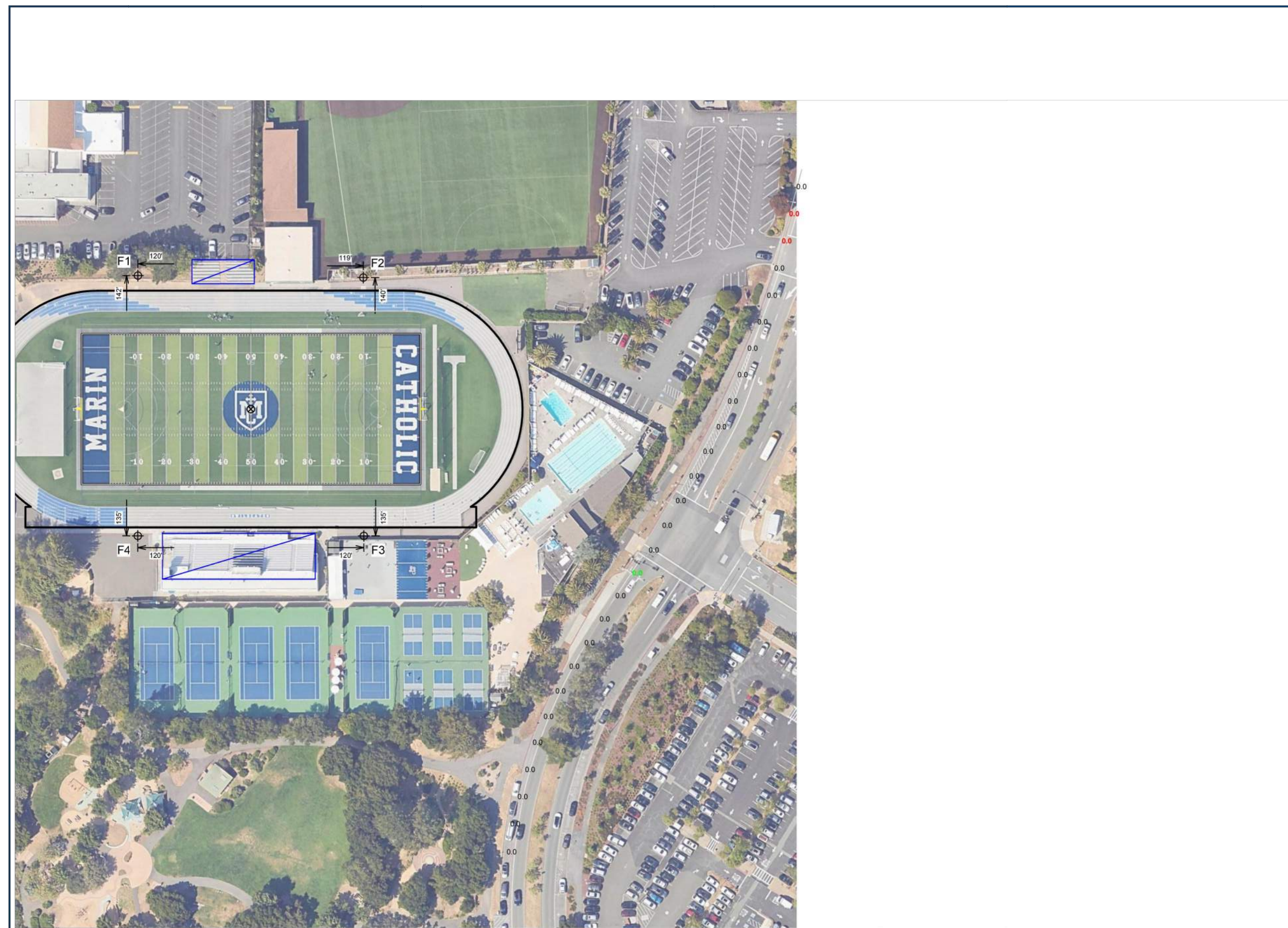
**Illumination Summary**  
Entire Grid  
Scan Average **3.33**  
Maximum 7  
Minimum 1  
Avg/Min 2.80  
Max/Min **3.99**  
UG (adjacent pole) 2.26  
CU 0.12  
No. of Points 56  
Applied Circuits B  
No. of Luminaires 8  
Total Load 3.84 kW

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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 (3m) of design locations.

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**ILLUMINATION SUMMARY**



SCALE IN FEET 1:100  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) dimensions are relative to 0,0 reference point(s)  
**D: Bon Air Road**

**Marin Catholic High School Football**  
Kentfield, CA

Equipment List For Areas Shown								
Pole	Luminaires							
QTY	LOCATION	SIZE	GRADE	ABOVE GRADE	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1500	7	0	7
				70'	TLC-RGBW	1	1	0
				15.5'	TLC-BT-575	2	0	2
2	F3-F4	80'	-	80'	TLC-LED-1500	7	0	7
				70'	TLC-RGBW	2	2	0
				15.5'	TLC-BT-575	2	0	2
<b>Totals</b>						<b>42</b>	<b>6</b>	<b>36</b>

**Grid Summary**  
Name Bon Air Rd  
Size 360' x 160'  
Spacing 10.0' x 10.0'  
Height 3.0' above grade

**Illumination Summary**  
Entire Grid  
Scan Average **0.00**  
Maximum 0  
Minimum 0  
Avg/Min -  
Max/Min -  
UG (adjacent pole) 0.00  
CU 0.00  
No. of Points 27  
Applied Circuits A  
No. of Luminaires 36  
Total Load 44.08 kW

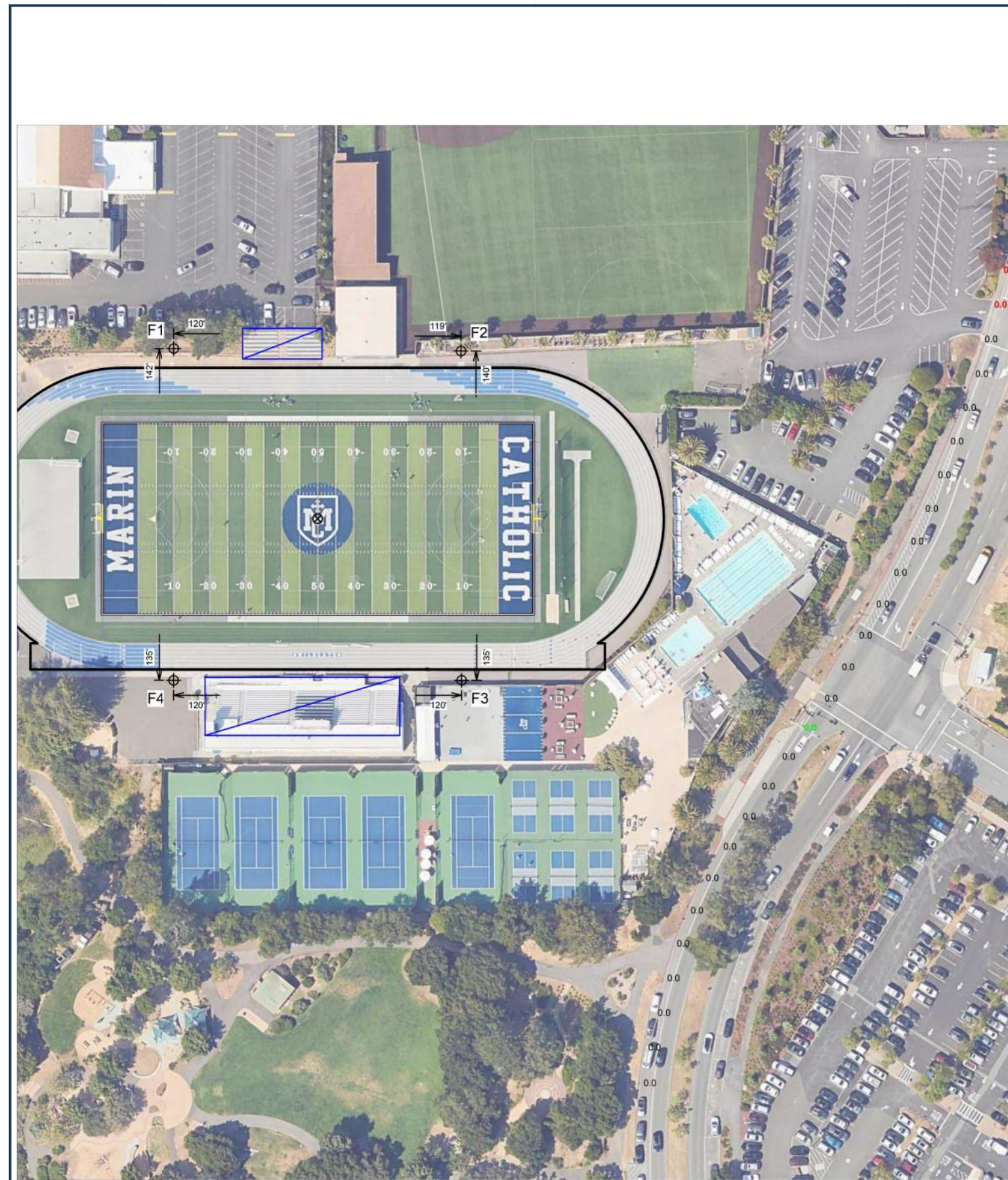
**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.  
**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.  
**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.  
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**ILLUMINATION SUMMARY**





SCALE IN FEET 1:100  
 0 100 200  
 ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
 Pole location(s) (P) dimensions are relative to 0.0 reference point(s) (R)

A: Bon Air Road

Marin Catholic High School Football	
Kentfield, CA	
<b>Grid Summary</b>	
Name	Bon Air Rd
Size	360' x 160'
Spacing	30.0' x 10.0'
Height	3.0' above grade
<b>Illumination Summary</b>	
ENTIRE GRID	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
<b>LUMINAIRE INFORMATION</b>	
No. of Points	27
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 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-4-15.  
**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



SCALE IN FEET 1:100  
 0 100 200  
 ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
 Pole location(s) (P) dimensions are relative to 0.0 reference point(s) (R)

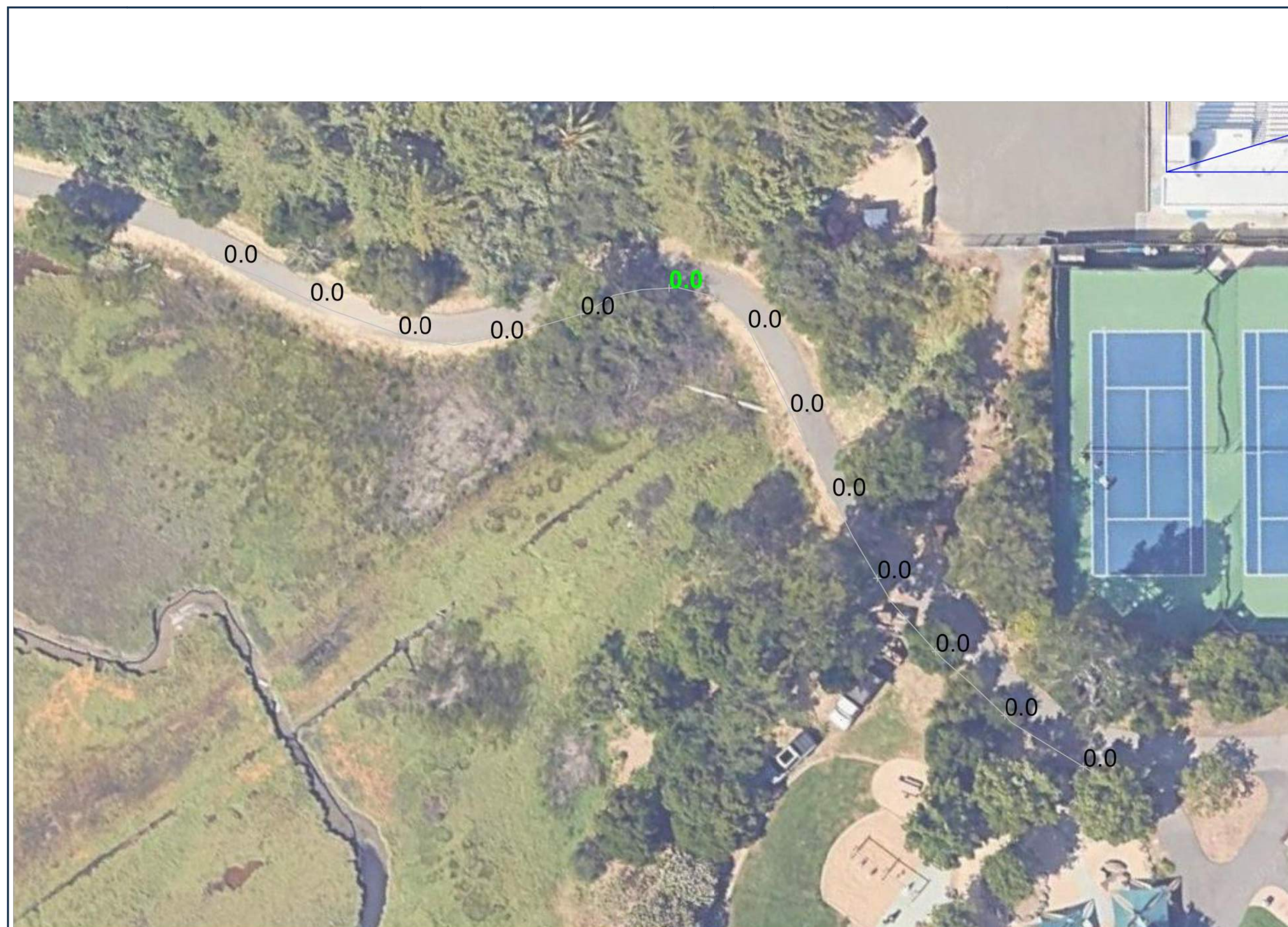
B: Bon Air Road

Marin Catholic High School Football	
Kentfield, CA	
<b>Grid Summary</b>	
Name	Bon Air Rd
Size	360' x 160'
Spacing	30.0' x 10.0'
Height	3.0' above grade
<b>Illumination Summary</b>	
ENTIRE GRID	
Scan Average	130.81
Maximum	499
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
<b>LUMINAIRE INFORMATION</b>	
No. of Points	27
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

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



SCALE IN FEET 1:30  
 0 30 60  
 ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
 Pole location(s) (P) dimensions are relative to 0.0 reference point(s) (R)

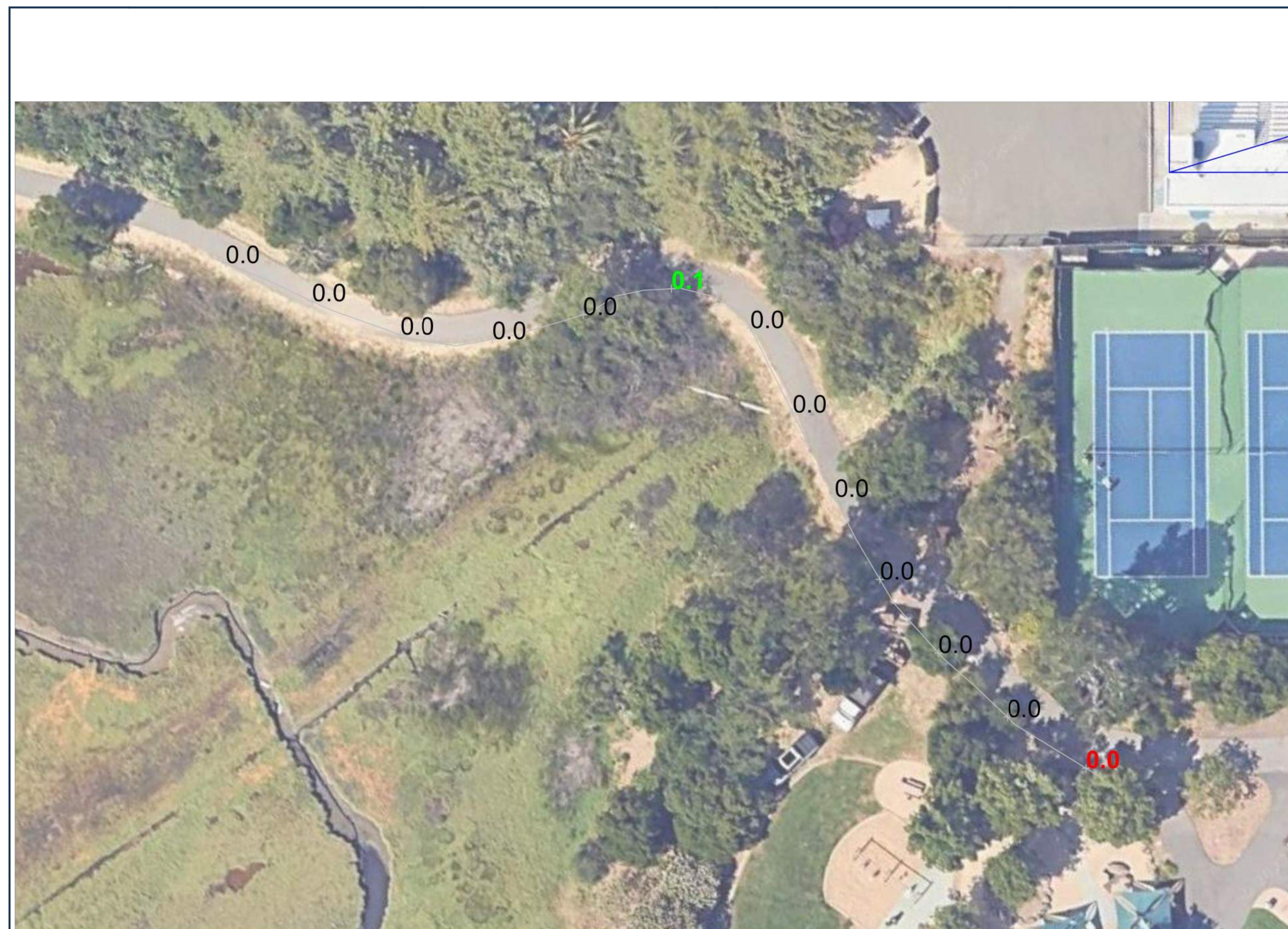
C: Tidal Marsh Spill

Marin Catholic High School Football	
Kentfield, CA	
<b>Grid Summary</b>	
Name	Tidal Marsh Spill
Size	360' x 160'
Spacing	30.0' x 10.0'
Height	3.0' above grade
<b>Illumination Summary</b>	
ENTIRE GRID	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
<b>LUMINAIRE INFORMATION</b>	
No. of Points	13
Applied Circuits	A,B
No. of Luminaires	42
Total Load	47.92 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-4-15.  
**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



SCALE IN FEET 1:30  
 0 30 60  
 ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
 Pole location(s) (P) dimensions are relative to 0.0 reference point(s) (R)

D: Tidal Marsh Spill

Marin Catholic High School Football	
Kentfield, CA	
<b>Grid Summary</b>	
Name	Tidal Marsh Spill
Size	360' x 160'
Spacing	30.0' x 10.0'
Height	3.0' above grade
<b>Illumination Summary</b>	
ENTIRE GRID	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	39.73
Max/Min	376.40
UG (adjacent pts)	0.00
CU	0.00
<b>LUMINAIRE INFORMATION</b>	
No. of Points	13
Applied Circuits	A,B
No. of Luminaires	42
Total Load	47.92 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-4-15.  
**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





**Marin Catholic High School Football**

Kentfield, CA

Grid Summary	
Name	Tidal Marsh Spill
Size	360' x 160'
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX CANDELA (PER FOOTCANDLE)	
Scan Average	200 Fc
Maximum	2009
Minimum	82
Avg/Min	8.63
Max/Min	24.43
UG (adjacent pole)	0.00
CU	0.00
No. of Points	13

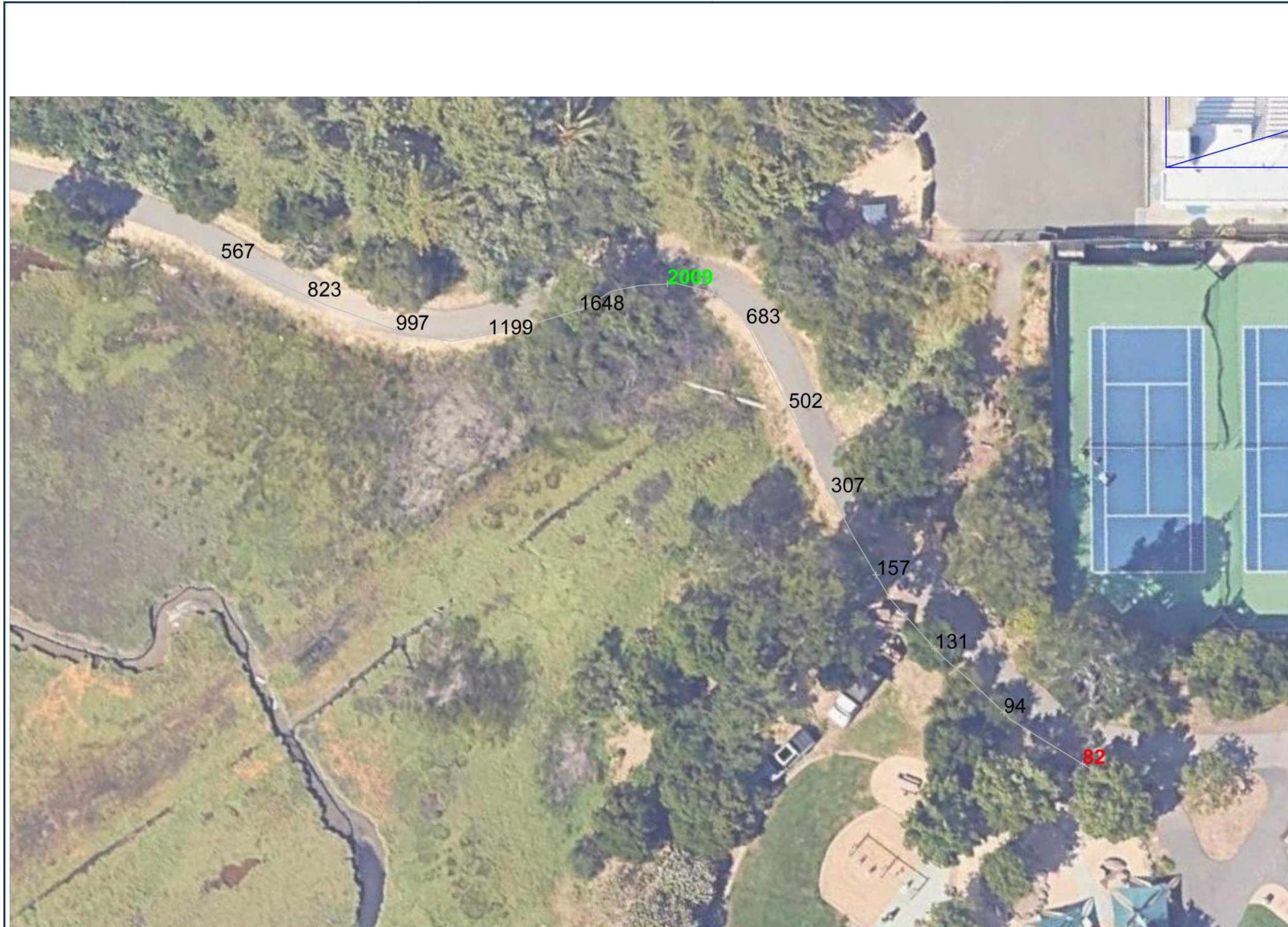
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	42
Total Load	47.92 kW

**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**



SCALE IN FEET 1 : 30  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) dimensions are relative to 0,0 reference point(s)

A: Tidal Marsh Spill

**Marin Catholic High School Football**

Kentfield, CA

Grid Summary	
Name	Sir Francis Drake BLVD Spill
Size	360' x 160'
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX CANDELA (PER FOOTCANDLE)	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pole)	0.00
CU	0.00
No. of Points	35

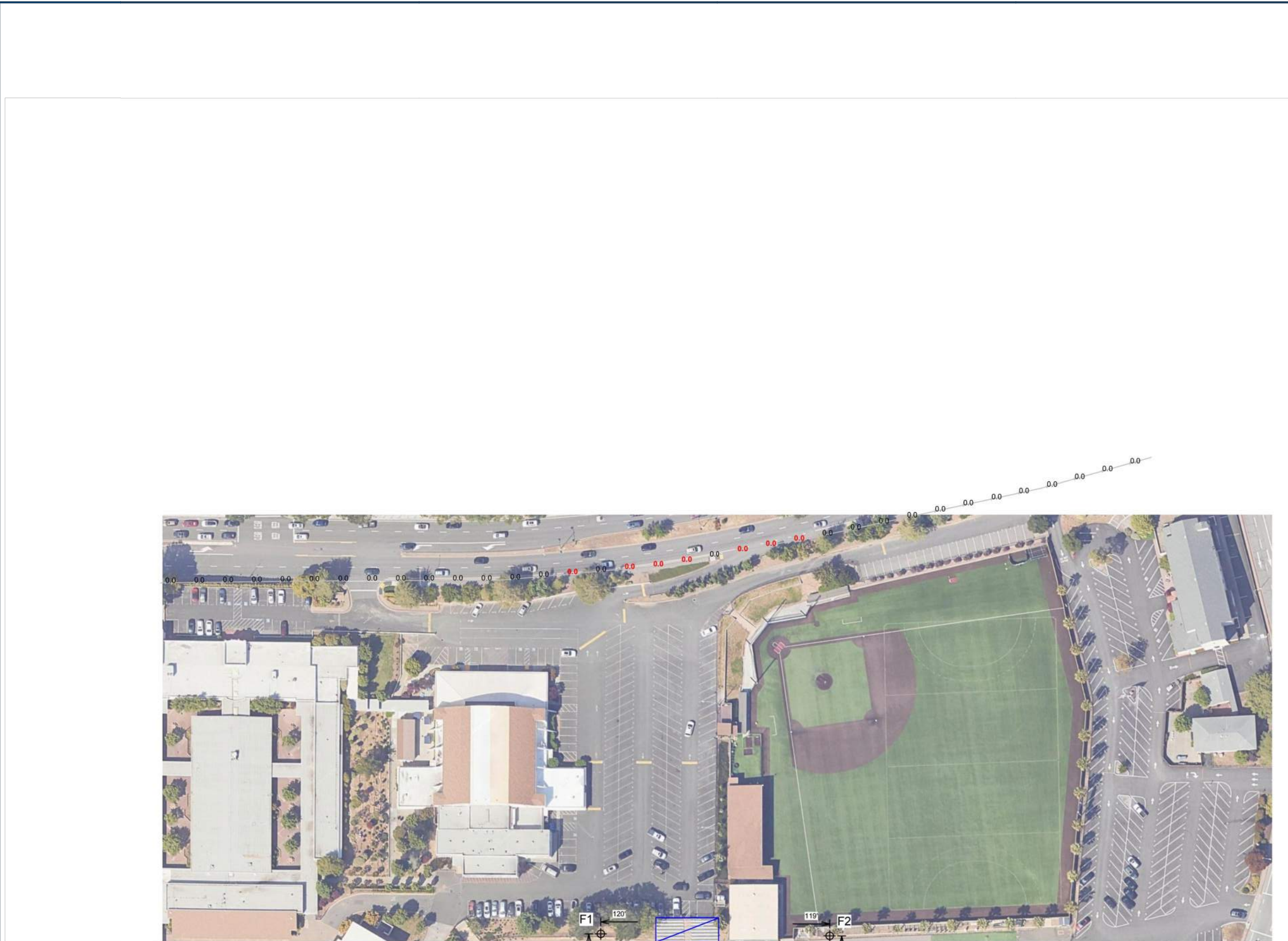
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.28 kW

**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**



SCALE IN FEET 1 : 100  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) dimensions are relative to 0,0 reference point(s)

B: Sir Francis Drake BLVD Spill

**Marin Catholic High School Football**

Kentfield, CA

Grid Summary	
Name	Sir Francis Drake BLVD Spill
Size	360' x 160'
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pole)	0.00
CU	0.00
No. of Points	35

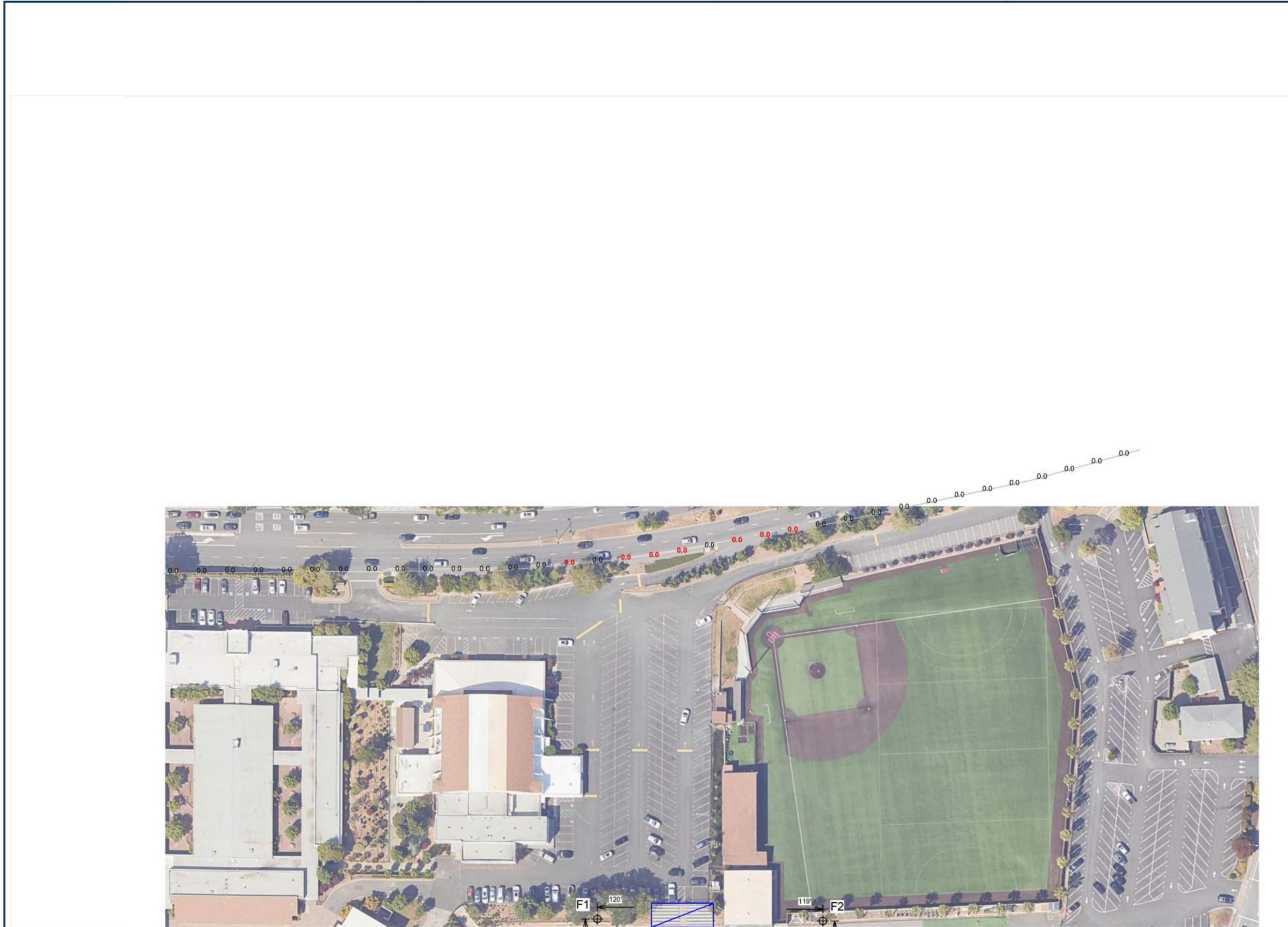
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.28 kW

**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**



SCALE IN FEET 1 : 100  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) dimensions are relative to 0,0 reference point(s)

C: Sir Francis Drake BLVD Spill

**Marin Catholic High School Football**

Kentfield, CA

Grid Summary	
Name	Sir Francis Drake BLVD Spill
Size	360' x 160'
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX CANDELA (PER FOOTCANDLE)	
Scan Average	4.28
Maximum	18
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pole)	0.00
CU	0.00
No. of Points	35

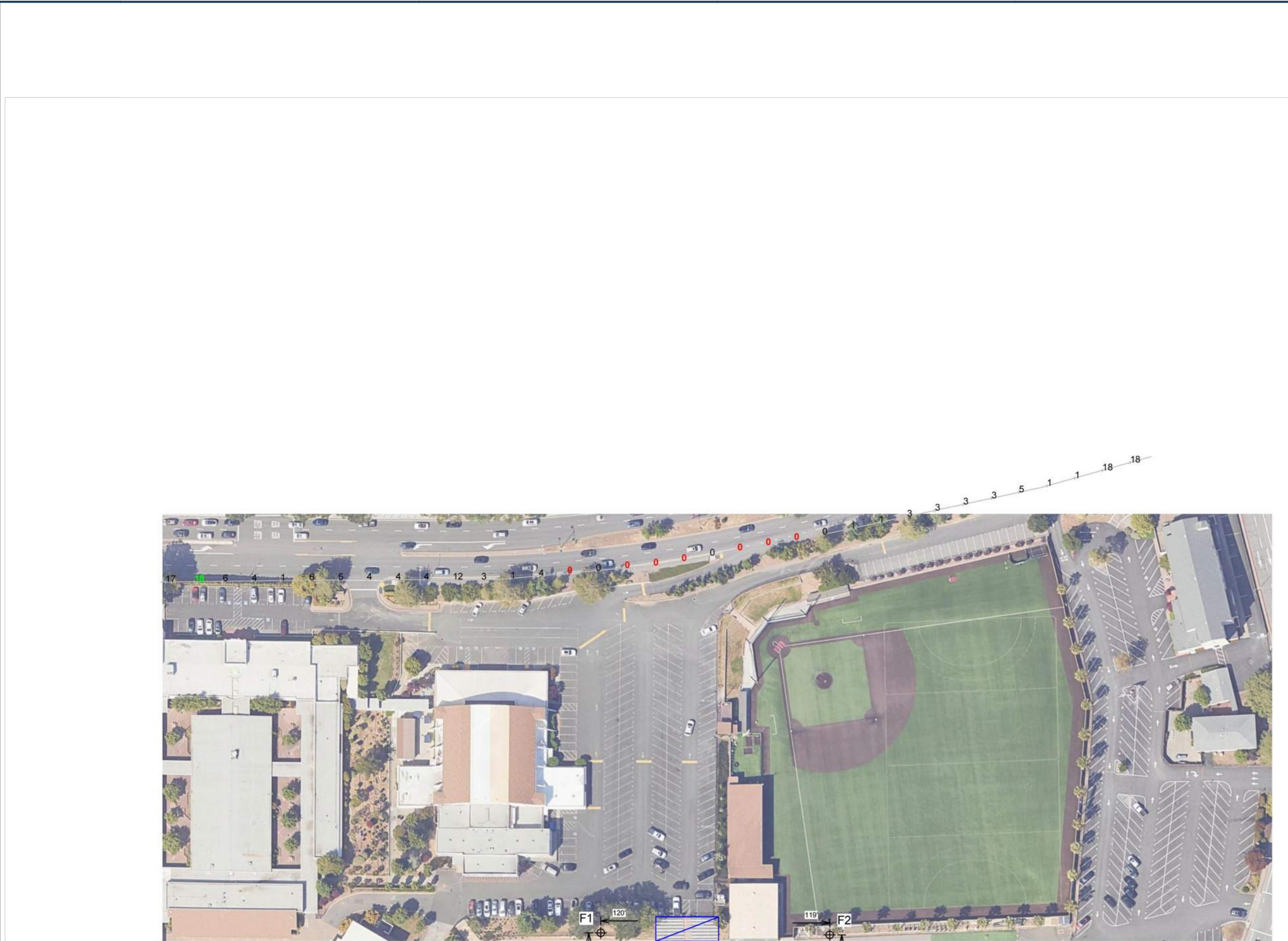
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.28 kW

**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**



SCALE IN FEET 1 : 100  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) dimensions are relative to 0,0 reference point(s)

D: Sir Francis Drake BLVD Spill



**Marin Catholic High School Football**

Kentfield, CA

Grid Summary	
Name	Creekside Park Spill
Size	360' x 160'
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
Entire Grid	MAINTAINED HORIZONTAL FOOTCANDLES
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	30

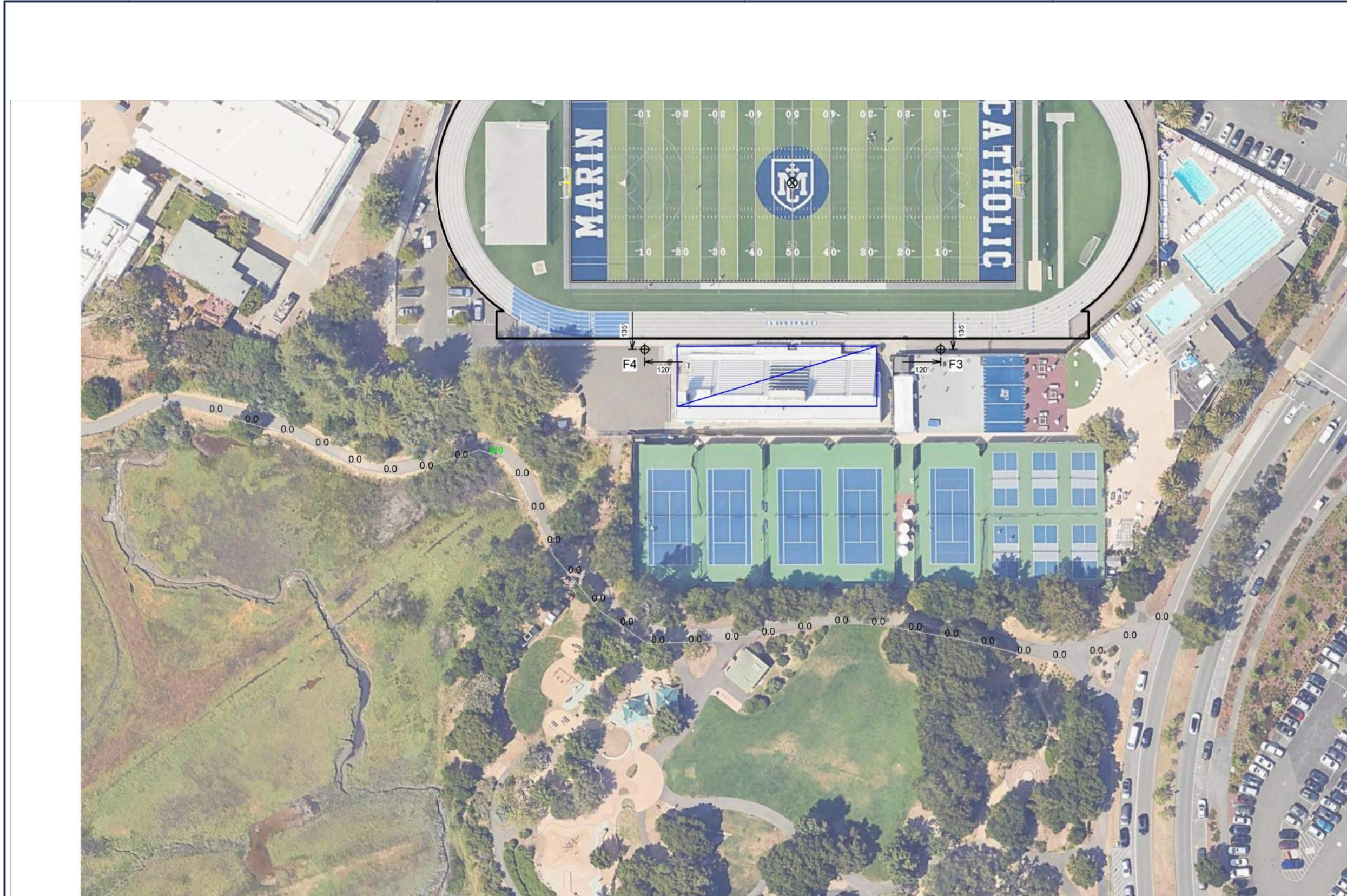
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

**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 (3m) of design locations.



**ILLUMINATION SUMMARY**

A: Creekside Park Spill



SCALE IN FEET 1: 80  
0 80 160  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) Ⓞ dimensions are relative to 0.0 reference point(s) ☒

**Marin Catholic High School Football**

Kentfield, CA

Grid Summary	
Name	Creekside Park Spill
Size	360' x 160'
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
Entire Grid	MAINTAINED MAX VERTICAL FOOTCANDLES
Scan Average	0.01
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	30

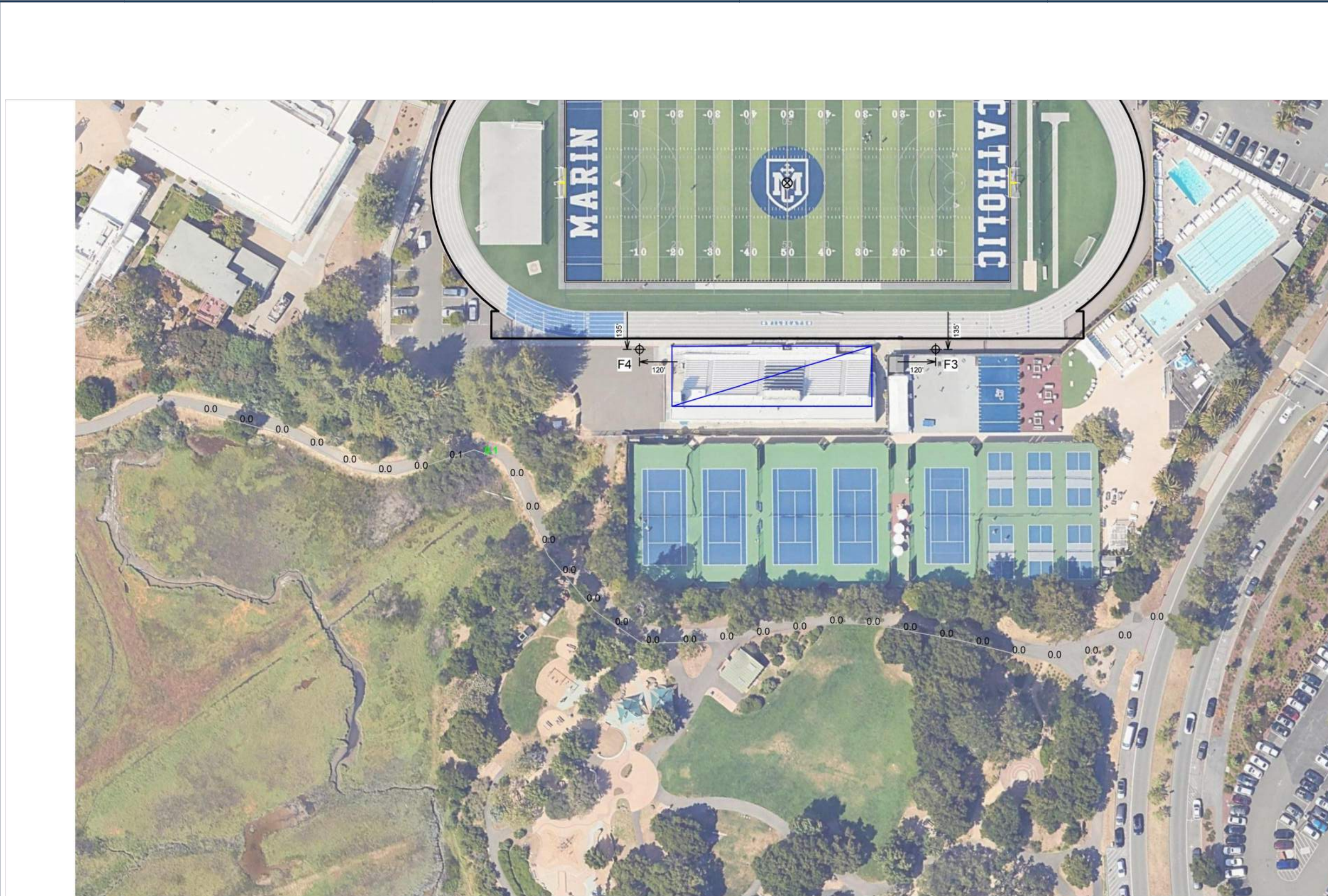
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

**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 (3m) of design locations.



**ILLUMINATION SUMMARY**

B: Creekside Park Spill



SCALE IN FEET 1: 80  
0 80 160  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) Ⓞ dimensions are relative to 0.0 reference point(s) ☒

**Marin Catholic High School Football**

Kentfield, CA

Grid Summary	
Name	Creekside Park Spill
Size	360' x 160'
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
Entire Grid	MAINTAINED MAX VERTICAL FOOTCANDLES
Scan Average	484.17
Maximum	1868
Minimum	1
Avg/Min	484.42
Max/Min	2384.33
UG (adjacent pts)	0.00
CU	0.00
No. of Points	30

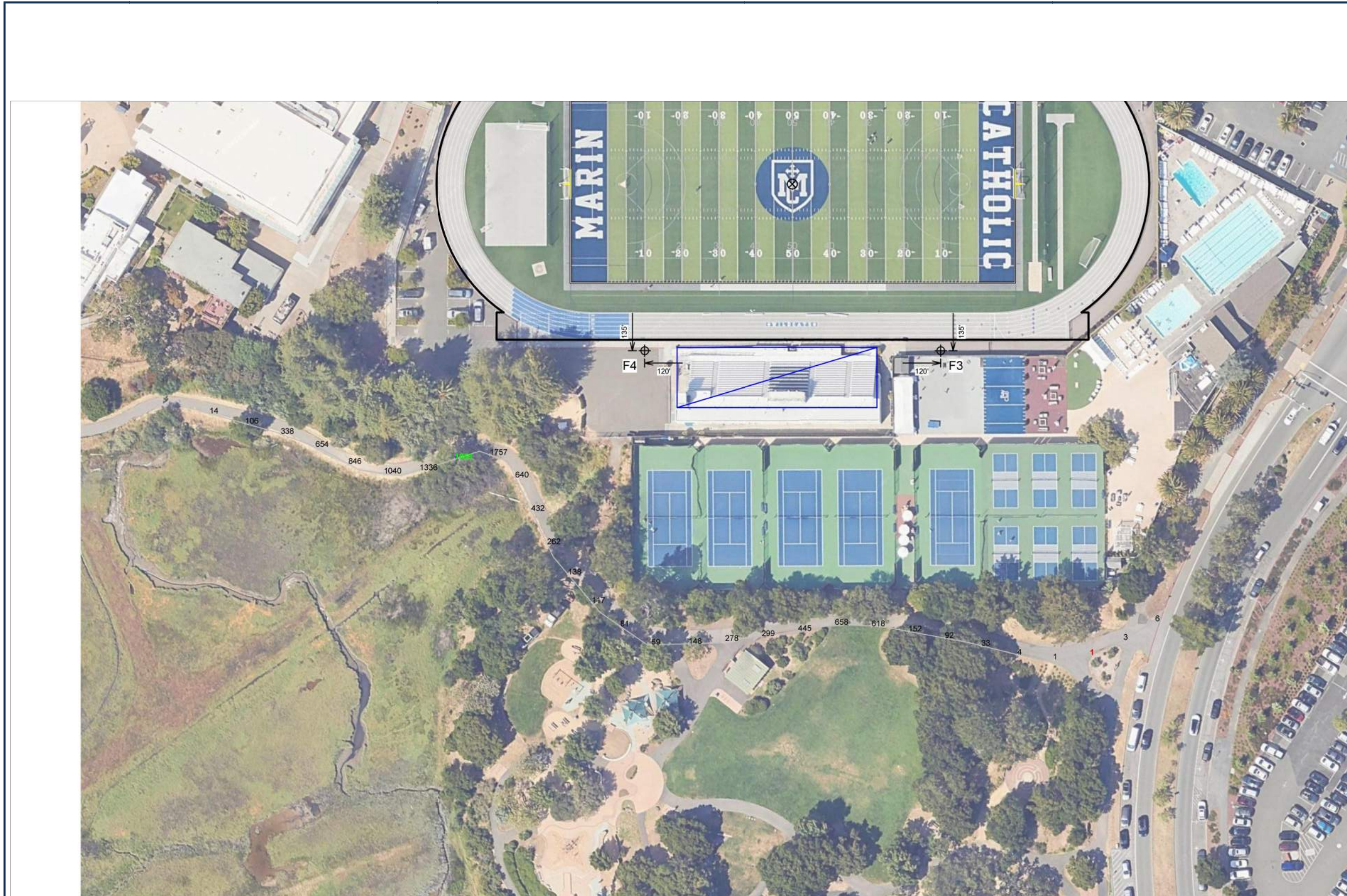
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

**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 (3m) of design locations.



**ILLUMINATION SUMMARY**

C: Creekside Park Spill



SCALE IN FEET 1: 80  
0 80 160  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) Ⓞ dimensions are relative to 0.0 reference point(s) ☒

**Equipment List For Areas Shown**

QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE (ft/ft)	Luminaires		THIS AREA	OTHER AREAS
					LUMINAIRE TYPE	QTY/POLE		
2	F1-F2	80'	80'	70'	TLC-LED-1500	7	7	0
				70'	TLC-48RW	1	0	1
				35.5'	TLC-48-S75	2	2	0
2	F3-F4	80'	80'	70'	TLC-LED-1500	7	7	0
				70'	TLC-48RW	2	0	2
				35.5'	TLC-48-S75	2	2	0
4	Totals					42	36	6

\*Above Grade level relative to the field

**Marin Catholic High School Football**

Kentfield, CA

Grid Summary	
Name	Blanket Grid
Size	360' x 300'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
Entire Grid	MAINTAINED HORIZONTAL FOOTCANDLES
Scan Average	13.41
Maximum	56
Minimum	0
Avg/Min	2926.45
Max/Min	11509.80
UG (adjacent pts)	19.39
CU	0.92
No. of Points	1500

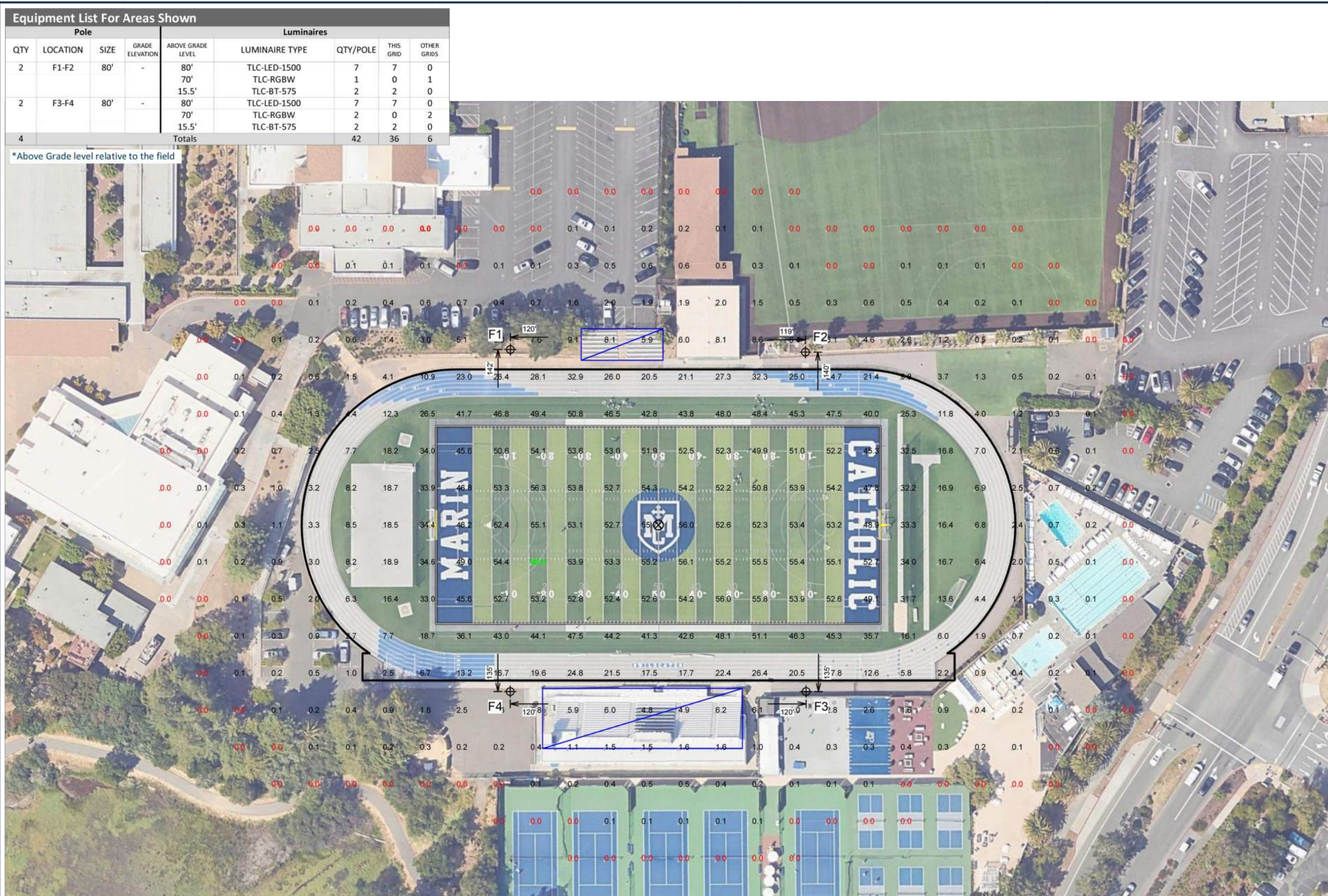
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

**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 (3m) of design locations.



**ILLUMINATION SUMMARY**

D: Blanket Grid



SCALE IN FEET 1: 80  
0 80 160  
ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24  
Pole location(s) Ⓞ dimensions are relative to 0.0 reference point(s) ☒

ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24



SCALE IN FEET 1" = 150'  
 0 150' 300'  
 ENGINEERED DESIGN By: BeThomps • File #230653B • 29-Apr-24

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

**Marin Catholic High School Football**

Kentfield, CA

**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 a 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	ANGLE	GRADE ELEVATION	LUMINAIRE TYPE	QTY/POLE
2	F1-F2	80'	-	80'	-	TLC-LED-1500	7
				70'	-	TLC-RGBW	1
				25.5'	-	TLC-RT-575	2
2	F3-F4	80'	-	80'	-	TLC-LED-1500	7
				70'	-	TLC-RGBW	2
				15.5'	-	TLC-RT-575	2
Totals							42

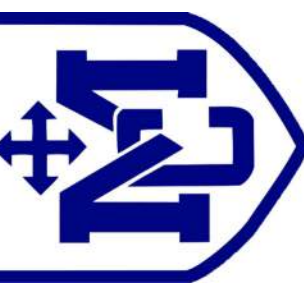
**Single Luminaire Amperage Draw Chart**

Driver Specifications	Line Amperage Per Luminaire (max draw)						
(.90 min power factor)	208	230	240	277	347	380	480
Single Phase Voltage (60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)
TLC-RT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.4	3.6
TLC-RGBW	4.5	4.3	3.8	3.3	2.7	1.9	1.9



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**EQUIPMENT LAYOUT**



FIELD LIGHTS FOR  
 MARIN CATHOLIC HIGH SCHOOL  
 675 SIR FRANCIS DRAKE BLVD  
 KENTFIELD, CA



05.03.24  
 PROJECT NO. 215164.00  
 DESIGN REVIEW AND  
 USE PERMIT SUBMITTAL