

Request

Waiver #1:

Waiver from Land Development Code Section 4.1.3.B.2.b.ii to allow the proposed stadium lighting to exceed the maximum 20 foot mounting height.

Fixture Locations	Requirement	Request	Waiver
Fixtures A1 & A2	20 ft.	70 ft.	50 ft.
Fixture B1	20 ft.	80 ft.	60 ft.
Fixture B2	20 ft.	90 ft.	70 ft.
Fixture C1	20 ft.	80 ft.	60 ft.
Fixture C2	20 ft.	70 ft.	50 ft.
Fixtures F1	20 ft.	80 ft.	60 ft.
Fixtures F2	20 ft.	70 ft.	50 ft.

Waiver #2

Waiver from Land Development Code Section 4.1.3.B.11.a to allow light trespass to exceed 0.5 foot-candles at the property line.

Waiver #3

Waiver from Development Code Section 4.1.3.B.2.c.i to not fully-shield the light fixtures.

Zoning/Form Districts

Subject Property:

Existing: Commercial C-1 & C-2/ SMC

Proposed: Commercial C-1 & C-2/ SMC

Adjacent Properties:

North: Commercial, Office, Vacant, & Multi-family residential C-2, R4, & R7/ SMC & N

East: Single family residential R-7, R-4 / N

South: Commercial, multi-family residential C-2 & R-7/ SMC & N

West: Commercial C-2/SMC



Aerial Photo/Land Use

Subject Property:

Existing: Commercial C-1 & C-2/ SMC

Proposed: Commercial C-1 & C-2/ SMC

Adjacent Properties:

North: Commercial, Office, Vacant, & Multi-family residential C-2, R4, & R7/ SMC & N

East: Single family residential R-7, R-4 / N

South: Commercial, multi-family residential C-2 & R-7/ SMC & N

West: Commercial C-2/SMC



Site Plan

IN THE AREA, EITHER IN SERVICE OR XY. 811-TOLL FREE PHONE NO. 204L 505-288-9123)

PLAN

HEADLINE FIELD MEETING WITH MSD AND ALL SUBCONTRACTORS PRIOR TO INITIATING SITE.

CONSTRUCTION ENTRANCE FOR PHASE 1 STRUCTURE AT NORTH END OF SITE OFF AREA OF PROPPARKING AREA.

HEADLINE PROTECTION AND INLET MADE 1' WORK AREA. BEGIN GRADING IN BASIN AREA FOR USE AS SEDIMENT I AND PHASE 2 CONSTRUCTION. INSTALL AND CONTROL STRUCTURES.

GRADING AND DRAINAGE. INSTALL STORM STRUCTURES, SHIELDS AND DITCHES. ED AREAS AS THEY ARE COMPLETED.

HEADLINE PROTECTION AND INLET UTH END OF SITE PRIOR TO INITIATING SOUTH DETENTION BASIN FOR USE AS DRAIN PHASE 2 CONSTRUCTION. INSTALL INTROL STRUCTURES.

TE AND INSTALL STORM DRAINAGE PIPE, S AND DITCHES. REVEGETATE DISTURBED COMPLETED.

AND TEMPORARY SILT LOADED DITCHES TO SOUTH PHASE 2 CONSTRUCTION TO NORTH ON FIELD AND REMAINDER OF SITE. O, SED & MULCH ON PLANT MATERIAL IN APPROVED LANDSCAPE PLAN.

FROM DETENTION BASINS. REGRADE AS BEST DESIGN BASIN VOLUMES AND CONTROL MEASURES ONCE VEGETATION IS I. SITE. THE CONTRACTOR IS RESPONSIBLE SITUATION IN STORM SEWERS THAT ARE INSTRUCTION ACTIVITIES.

JESTS 0.210 TO ELIMINATE THE REQUIRED VIA ID FOR THE SMALL EXISTING PARKING LOT IVE AND EXISTING LOADING AREA ALONG

1. 5.5.1 TO ALLOW PARKING IN FRONT OF THE EXISTING 3' MASONRY WALL BETWEEN THE ROADWAY.

5.5.2 TO MAKE A PORTION OF THE OHLIN STREET.

0.24 TO ELIMINATE THE 6' CONTINUOUS PROPERTY FORMER LANDSCAPE BUFFER.

2. TABLE 5.2.2 TO ALLOW PARKING TO REQUIRED SETBACK.

TABLE 5.2.2 TO ALLOW THE BUILDING TO AN SETBACK BY 30' ALONG LAUGHLIN NG KENWOOD DRIVE.

5.5.1 TO ALLOW THE BUILDING TO BE SET INKER OF LAUGHLIN STREET AND KENWOOD

4) CONCRETE WALKS AND PAVING ARE TO HAVE LIGHT BROOM FINISH.

5) SILT CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND REMOVED UPON COMPLETION OF THE JOB ONCE GRASS IS ESTABLISHED.

6) CONSTRUCTION STAGING SHALL BE DONE BY CONTRACTOR.

7) THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD HAZARD AREA. (FEMA MAP 21110C0074E, DECEMBER 5, 2006)

8) ALL CONSTRUCTION AND SALES TRAILERS MUST BE PERMITTED BY THE DEPARTMENT OF PUBLIC HEALTH & WELFARE IN ACCORDANCE WITH CHAPTER 115 OF LOUISVILLE JEFFERSON COUNTY METRO ORDINANCES.

9) MOSQUITO CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 96 OF LOUISVILLE JEFFERSON COUNTY METRO ORDINANCES.

10) MITIGATION MEASURES FOR BEST CONTROL SHALL BE IN PLACE DURING CONSTRUCTION TO PREVENT FUGITIVE EMISSIONS FROM REACHING EXISTING ROADS AND NEIGHBORING PROPERTIES.

11) CONSTRUCTION PLANS, BOND & PERMIT ARE REQUIRED BY METRO PUBLIC WORKS PRIOR TO CONSTRUCTION APPROVAL.

12) AN MSD DRAINAGE BOND WILL BE REQUIRED.

13) ONSITE DETENTION WILL BE REQUIRED. THE POST-DEVELOPED 100-YEAR RATE OF RUNOFF MUST BE REDUCED TO AT OR BELOW THE PRE-DEVELOPED 10-YEAR RATE.

14) THE FINAL DESIGN OF THIS PROJECT MUST MEET ALL MS4 WATER QUALITY REGULATIONS ESTABLISHED BY METRO. SITE LAYOUT MAY CHANGE AT THE DESIGN PHASE DUE TO PROPERTY SIZING OF GREEN BEST MANAGEMENT PRACTICES.

15) SANITARY SEWERS ARE AVAILABLE BY PRIVATE SEWER CONNECTION TO EXISTING PUBLIC SANITARY SEWERS ON ESPRANQUE AVE AND LAUGHLIN AVE. NO INCREASE IN SANITARY SEWER FLOW IS ANTICIPATED. FLOW FROM NEW FUTUREHOUSE SANITARY FACILITIES OFFSET BY REMOVAL OF 6 HOMES ON NORTH END OF SITE.

NEW CONSTRUCTION CALCULATIONS

EXISTING BUILDING FOOTPRINT 40,200 SF
TOTAL NEW BUILDING FOOTPRINT 51,400 SF
PERCENT INCREASE 26%

EXISTING VUA 52,347 SF
TOTAL PROPOSED VUA 103,555 SF
PERCENT INCREASE 12%

EXISTING IMPERVIOUS AREA 164,208 SF
TOTAL PROPOSED IMPERVIOUS AREA 228,758 SF
PERCENT INCREASE 37%

DETENTION CALCULATION

EXISTING C = 0.47
PROPOSED C = 0.53
DECREASE REQUIRED
14.374% ((0.53-0.47) / 0.53) = 0.31 ADFL

EXISTING PARKING (INCLUDING 8 H.C. SPACES) 238 SPACES
* A 100 REDUCE IS AVAILABLE BECAUSE THIS SITE IS WITHIN 200' OF A TARC ROUTE.

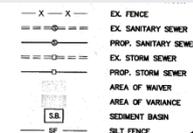
TREE CANOPY CALCULATIONS

SITE AREA 625,740 SF
EXISTING TREE CANOPY 28,148 SF (4%)
EXISTING TREE CANOPY TO REMAIN 0 SF (0%)
REQUIRED NEW TREE CANOPY 46,631 SF (7.5%)
(66 TYP. "X" TREES AT 1-3/4" CAL.)

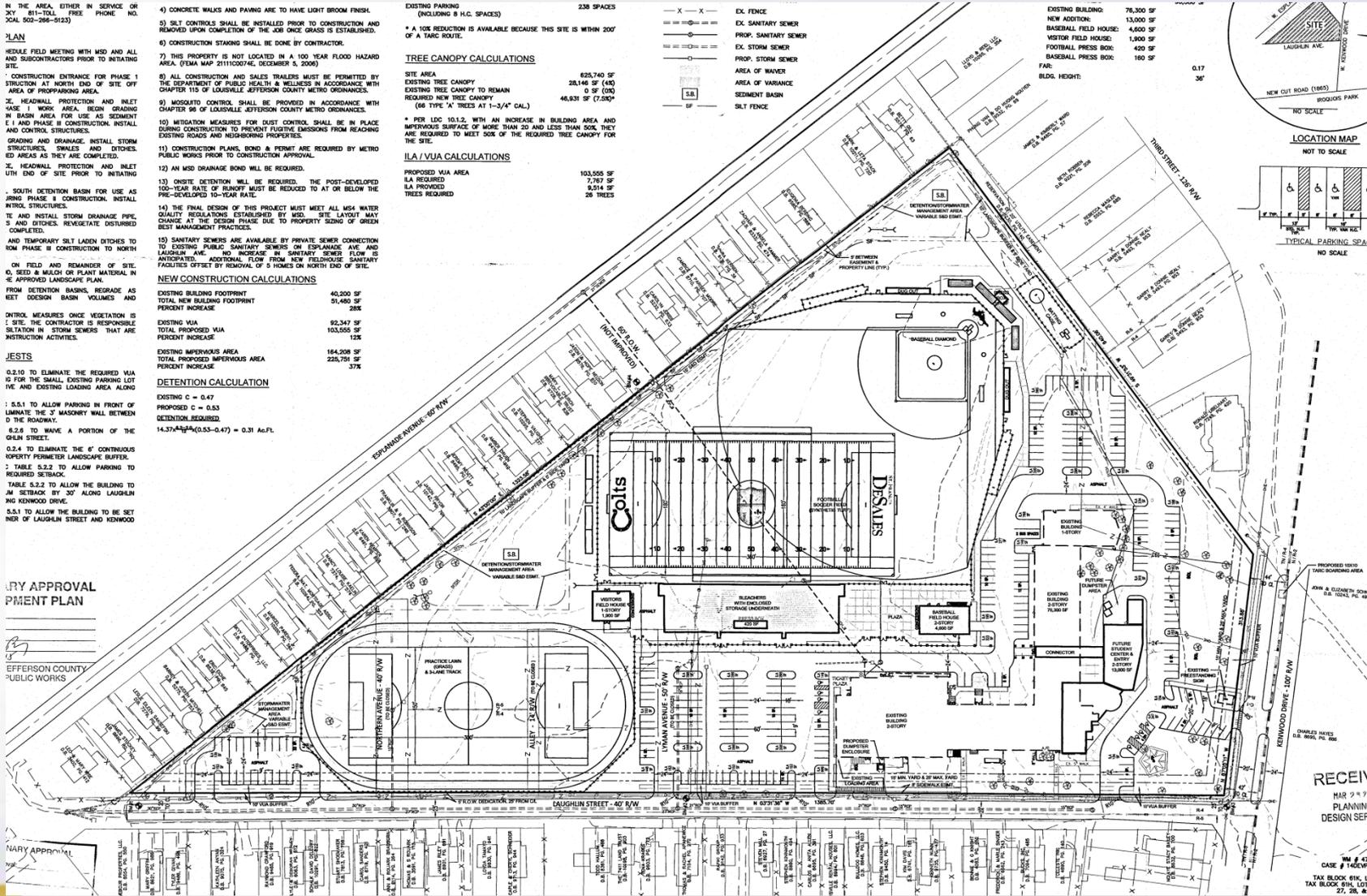
* PER LOC 10.1.2 WITH AN INCREASE IN BUILDING AREA AND IMPERVIOUS SURFACE OF MORE THAN 20 AND LESS THAN 50%, THEY ARE REQUIRED TO MEET 50% OF THE REQUIRED TREE CANOPY FOR THE SITE.

ILA / VUA CALCULATIONS

PROPOSED VUA AREA 103,555 SF
ILA REQUIRED 7,767 SF
ILA PROVIDED 9,214 SF
TREES REQUIRED



EXISTING BUILDING	76,300 SF
NEW ADDITION	13,000 SF
BASISBALL FIELD HOUSE	4,500 SF
VISITOR FIELD HOUSE	1,800 SF
FOOTBALL PRESS BOO	420 SF
BASISBALL PRESS BOO	160 SF
SITE	

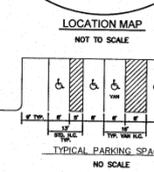
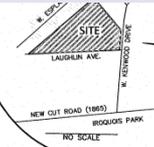


PERMIT APPROVAL

JEFFERSON COUNTY PUBLIC WORKS

PERMIT APPROVAL

JEFFERSON COUNTY PUBLIC WORKS



RECEIVED
MAR 2 9 11
PLANNING DESIGN SERV

MAP # 473
CASE # 100004
TAX BLOCK 81K, LO
TAX BLOCK 81K, LOTS
27, 28, & 2



Lighting Plan

EQUIPMENT LIST FOR AREAS SHOWN									
QTY	LOCATION	Pole		MOUNTING HEIGHT	LUMINAIRE	QTY/POLE	TIRE SIZE	OTHER CODES	
		SIZE	GRADE ELEVATION						
1	B2	30'	-	30'	1500W MZ	12	12	0	
1	C1	80'	-	80'	1500W MZ	14	14	0	
1	C2	70'	-	70'	1500W MZ	7	7	0	
1	F1	80'	-	80'	1500W MZ	11	11	0	
1	F2	70'	-	70'	1500W MZ	8	8	0	
TOTALS						52	52	0	



MY PROJECT
 Name: DeSales High School Baseball Football
 Location: Louisville, KY

GRID SUMMARY
 Name: Football
 Size: 360' x 160'
 Spacing: 30.0' x 30.0'
 Height: 3.0' above grade

CONSTANT ILLUMINATION

SUMMARY	HORIZONTAL FOOTCANDLES
Entire Grid	
Guaranteed Average:	50
Scan Average:	50.11
Maximum:	61
Minimum:	31
Avg / Min:	1.62
Max / Min:	1.96
UG (adjacent pts):	1.39
CU:	0.47
No. of Points:	72

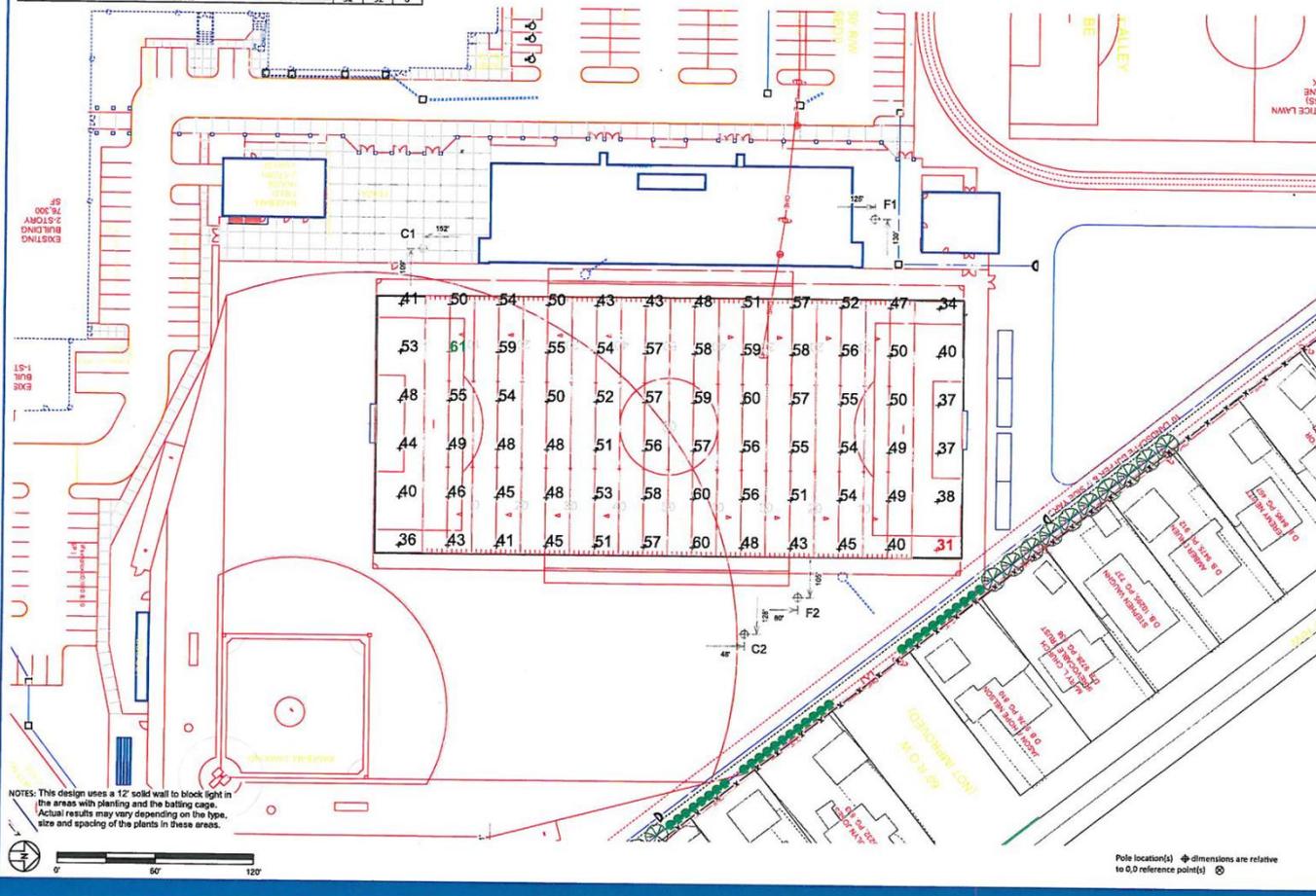
LUMINAIRE INFORMATION:
 Luminaire Type: Green Generation
 Design Usage Hours: 5,000 hours
 Design Lumens: 134,000
 Avg Lamp Tilt Factor: 1.000
 No. of Luminaires: 52
 Avg KW: 81.33 (88.4 max)

Guaranteed Performance: The Guaranteed Average CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.
Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.
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 ballast and structures located within 3 feet (1m) of design locations.

ENGINEERED DESIGN
 By: Cory Kitzman
 File # / Date: 1724778A 24-Apr-15

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ILLUMINATION SUMMARY



NOTES: This design uses a 12" solid wall to block light in the areas with planting and the batting cage.
 Actual results may vary depending on the type, size and spacing of the plants in these areas.

Scale: 0' 60' 120'

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



Lighting Plan



EQUIPMENT LIST FOR AREAS SHOWN									
Pole					Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOORING HEIGHT	LAMP TYPE	QTY/ POLE	SIZE (INCH)	OTHER	GROUP
2	A1-A2	70"	-	70"	1500W MZ	5	5	0	
3	B1	80"	-	80"	1500W MZ	9	9	0	
3	B2	80"	-	80"	1500W MZ	12	12	0	
3	C1	80"	-	80"	1500W MZ	14	9	5	
1	C2	70"	-	70"	1500W MZ	7	6	1	
TOTALS						52	46	6	

MY PROJECT	Name: DeSales High School Baseball Football Location: Louisville, KY
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GRID SUMMARY	Name: Baseball Size: 300'x90' / 300' - basepath 90' Spacing: 30.0' x 30.0' Height: 3.0' above grade
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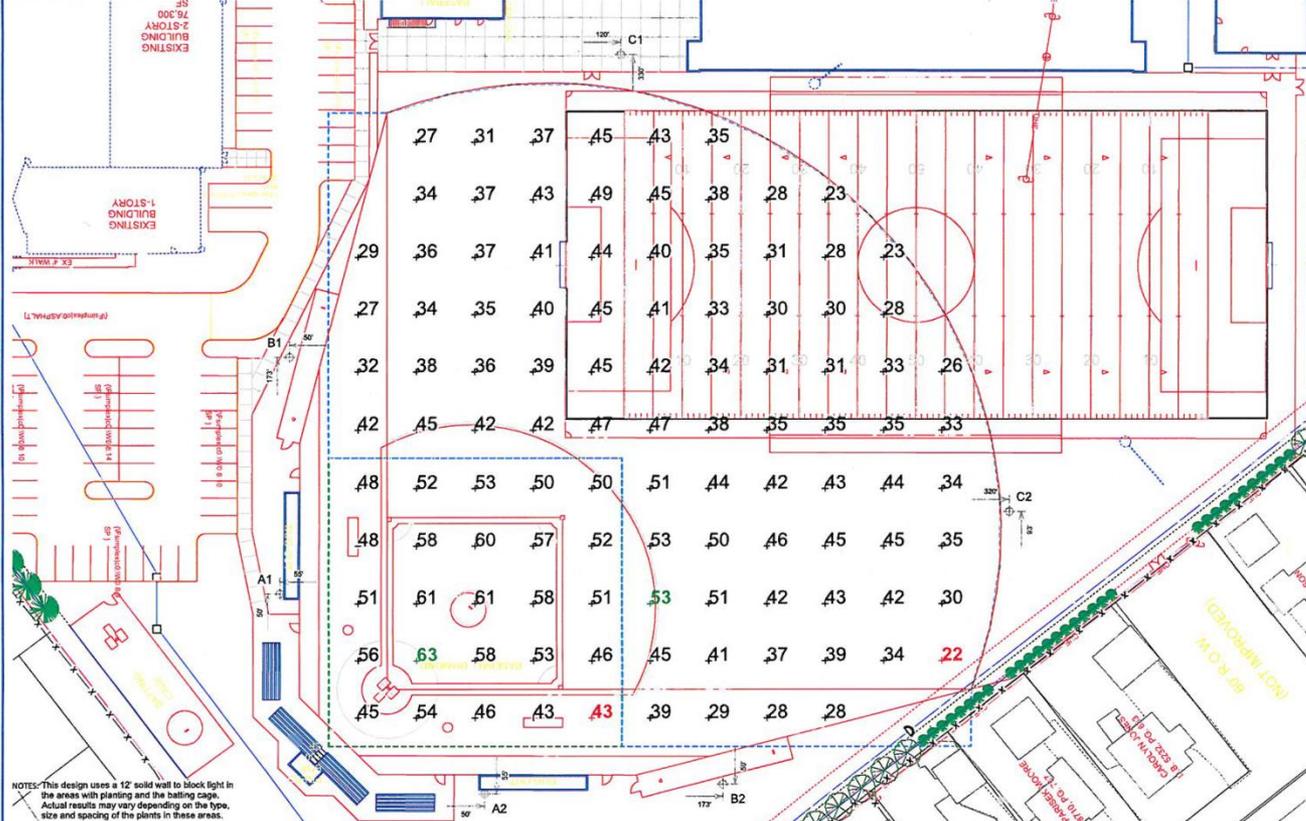
CONSTANT ILLUMINATION SUMMARY		
	INFIELD	HORIZONTAL FOOT CANDLES OUTFIELD
Guaranteed Average:	50	30
Scan Average:	52.68	37.70
Maximum:	63	53
Minimum:	43	22
Avg / Min:	1.24	1.72
Max / Min:	1.48	2.41
UG (adjacent pts):	1.27	1.53
CU:	0.65	
No. of Points:	25	84
LUMINAIRE INFORMATION		
Luminaire Type: Green Generation		
Design Usage Hours: 5,000 hours		
Design Lumens: 134,000		
Avg Lamp Tilt Factor: 1.000		
No. of Luminaires: 46		
Avg KW: 71.94 (78.2 max)		

Guaranteed Performance: The Guaranteed Average CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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 ballast and structures located within 3 feet (1m) of design locations.



NOTES: This design uses a 12" solid wall to block light in the areas with planting and the batting cage. Actual results may vary depending on the type, size and spacing of the plants in these areas.

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

ENGINEERED DESIGN	By: Cory Kitzman File # / Date: 172478A	24-Apr-15
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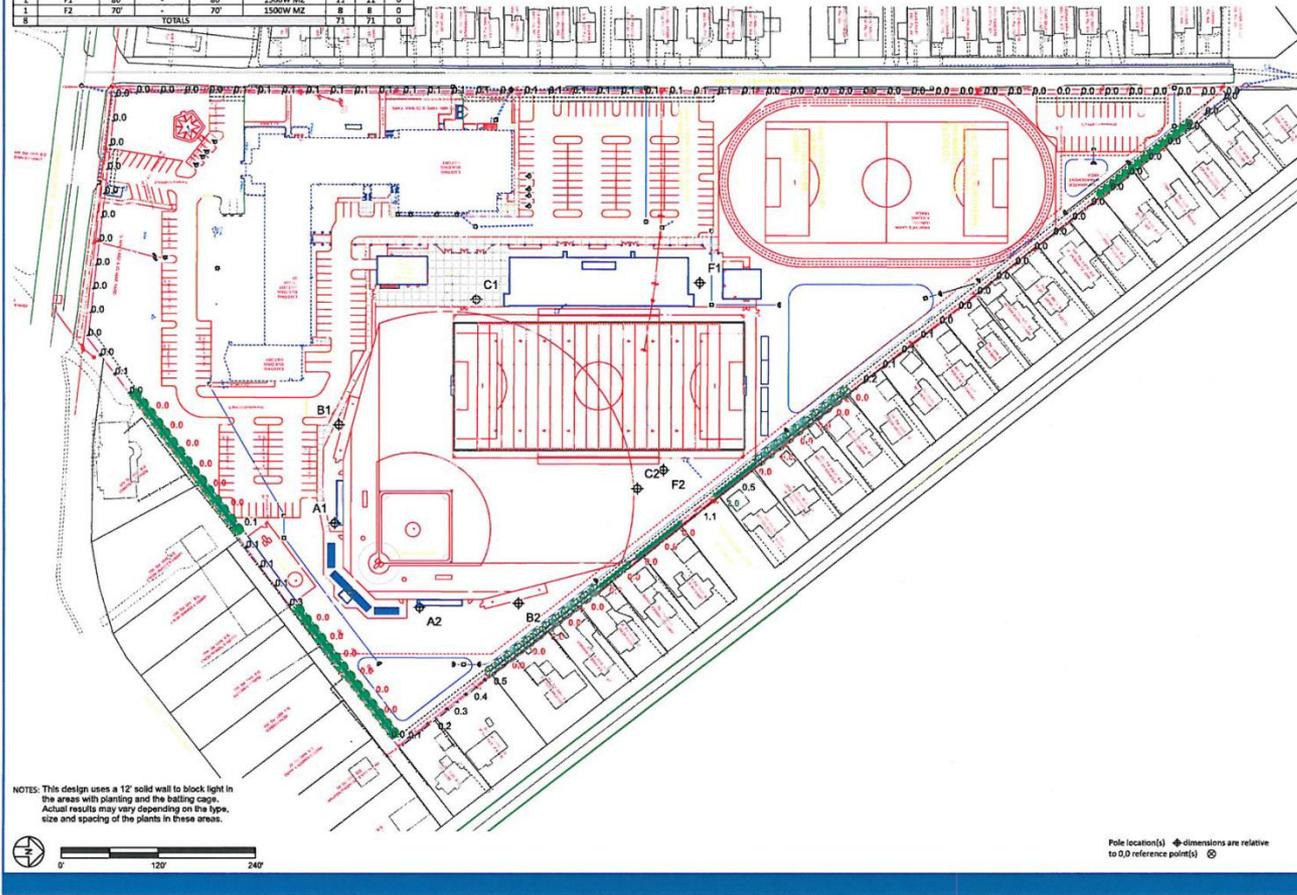
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ILLUMINATION SUMMARY



Lighting Plan

EQUIPMENT LIST FOR AREAS SHOWN							
QTY	LOCATION	SIZE	SIGNAL ELEVATION	MOUNTING HEIGHT	Luminaires		OTHER GRID
					LAMP TYPE	QTY/POLE	
2	A1-A2	70'	-	70'	1500W MZ	5 5	0
1	B1	80'	-	80'	1500W MZ	9 9	0
1	B2	90'	-	90'	1500W MZ	12 12	0
1	C1	80'	-	80'	1500W MZ	14 14	0
1	C2	70'	-	70'	1500W MZ	7 7	0
1	F1	80'	-	80'	1500W MZ	11 11	0
1	F2	70'	-	70'	1500W MZ	8 8	0
8	TOTALS					71 71	0



NOTES: This design uses a 12' solid wall to block light in the areas with planting and the batting cage. Actual results may vary depending on the type, size and spacing of the plants in these areas.



Pole location(s) ◆ dimensions are relative to D.0 reference point(s) ⊙



MY PROJECT
Name: DeSales High School Baseball Football
Location: Louisville, KY

GRID SUMMARY
Name: Spill @ PL
Spacing: 30.0'
Height: 3.0' above grade

CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
Entire Grid	
Scan Average:	0.0809
Maximum:	2.04
Minimum:	0.00
No. of Points:	122
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Design Usage Hours:	5,000 hours
Design Lumens:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	71
Avg KW:	111.04 (120.7 max)

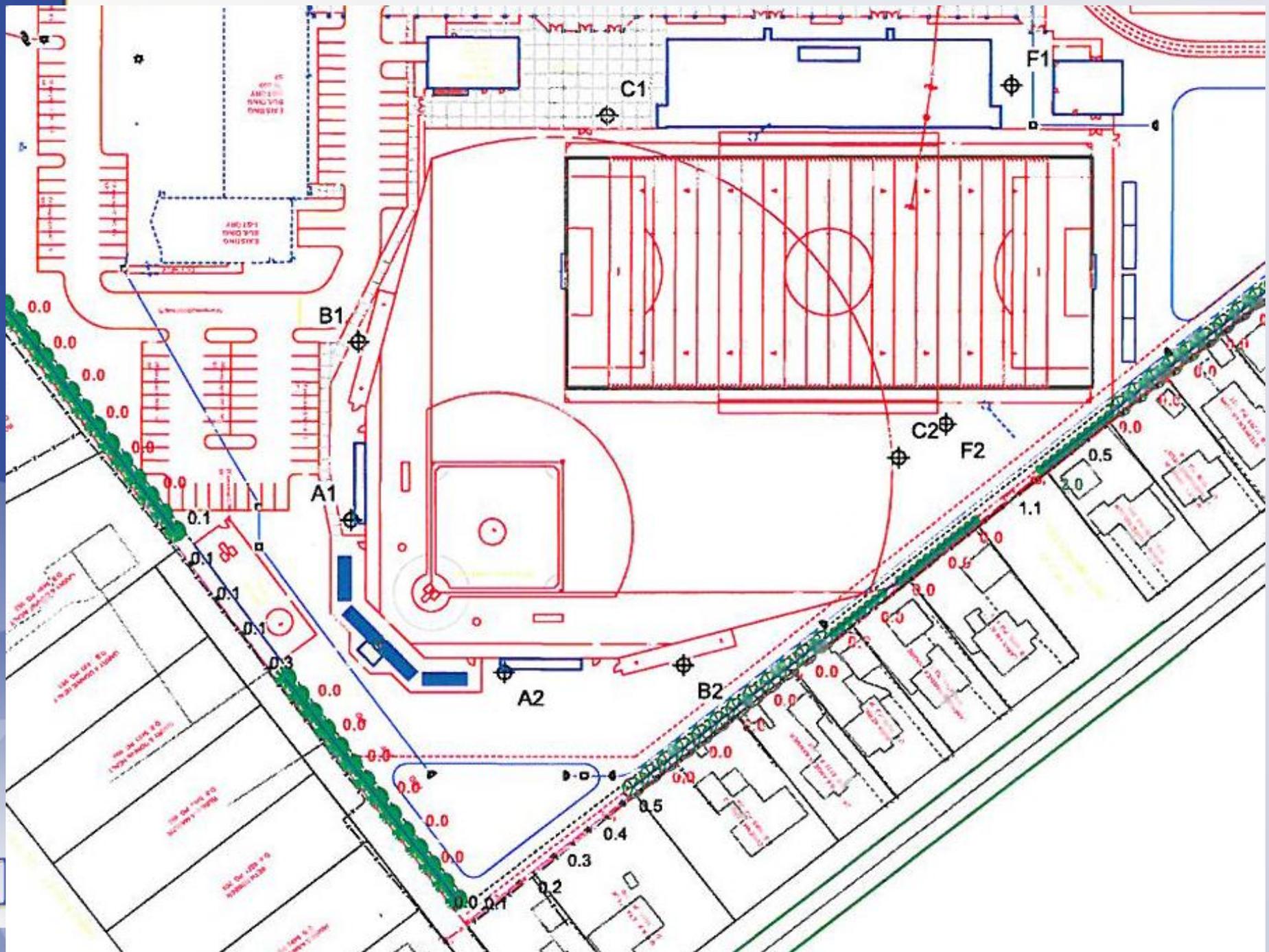
Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.
Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.
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Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

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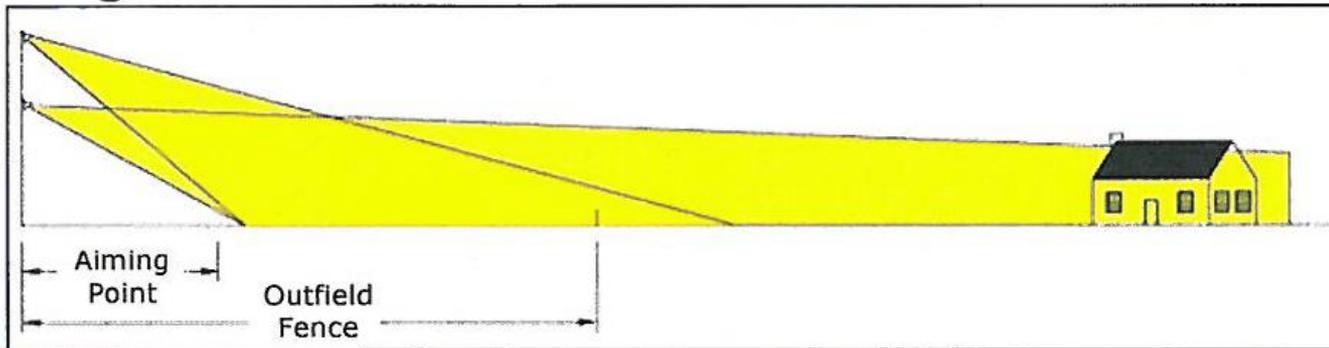
ILLUMINATION SUMMARY





Mounting Heights

Appropriate mounting heights or additional poles allow for optimum aiming angles:



Southeastern perimeter looking northeast



Southeastern perimeter looking northeast



Southeastern perimeter looking northeast



Southeastern perimeter looking southwest



Northeastern perimeter looking northwest



Northeastern perimeter looking southeast



Northeastern perimeter looking southeast



Northeastern perimeter looking northwest



Concept Landscape Plan

