

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

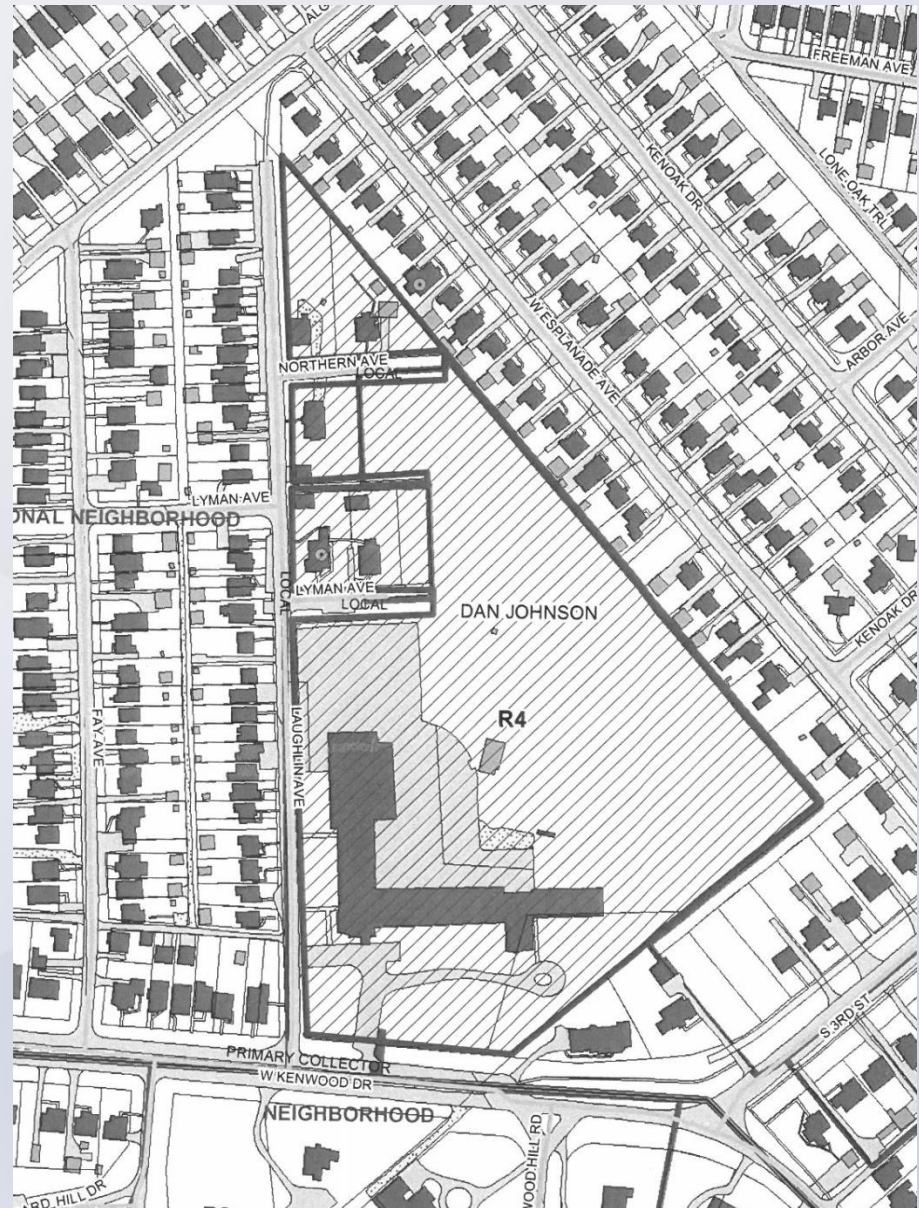
Adjacent Properties:

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
JAL 811-TOLL FREE PHONE NO.
JAL 505-288-5133

PLAN

REDUCE 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.

2. HEADWALL PROTECTION AND INLET
NAME 1 WORK AREA. BEGIN GRADING
IN BASIN AREA FOR USE AS SEDIMENT
E AND PHASE 2 CONSTRUCTION. INSTALL
AND CONTROL STRUCTURES.

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

3. HEADWALL PROTECTION AND INLET
UT END OF SITE PRIOR TO INITIATING

4. SOUTH DETENTION BASIN FOR USE AS
JUNK PHASE 2 CONSTRUCTION. INSTALL
INTROL STRUCTURES.

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

AND TEMPORARY SILT LADEN DITCHES TO
SOM PHASE 2 CONSTRUCTION TO NORTH

ON FIELD AND REMAINDER OF SITE.
DO, SED & MUD ON PLANT MATERIAL IN
RE APPROVED LANDSCAPE PLAN.

FROM DETENTION BASINS, REGRADE AS
KEET. DETENTION BASIN VOLUMES AND
CONTROL MEASURES ONCE VEGETATION IS

1. SITE. THE CONTRACTOR IS RESPONSIBLE
SITUATION IN STORM SEWERS THAT ARE
INSTRUCTION ACTIVITIES.

JESTS

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

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

6.2.1 TO MAKE A PORTION OF THE
OULIN 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
HIER 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 211100074E, 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 98 OF LOUISVILLE JEFFERSON COUNTY METRO ORDINANCES.

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

11) CONSTRUCTION PLANS, BOND & PAYMENT 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 MSD WATER
QUALITY REGULATIONS ESTABLISHED BY MSD. 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. ADDITIONAL FLOW FROM NEW FIVEHOUSE SANITARY
FACILITIES OFFSET BY REMOVAL OF 5 HOMES ON NORTH END OF SITE.

NEW CONSTRUCTION CALCULATIONS

EXISTING BUILDING FOOTPRINT 40,200 SF
TOTAL NEW BUILDING FOOTPRINT 51,480 SF
PERCENT INCREASE 28%

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

EXISTING IMPERVIOUS AREA 164,208 SF
TOTAL PROPOSED IMPERVIOUS AREA 225,758 SF
PERCENT INCREASE 37%

DETENTION CALCULATION

EXISTING C = 0.47
PROPOSED C = 0.53
SECTION 5.2.2.1
14.374 / (0.53 - 0.47) = 0.31 ACF

EXISTING PARKING (INCLUDING 8 H.C. SPACES)

* A 10% REDUCTION IS AVAILABLE BECAUSE THIS SITE IS WITHIN 200'
OF A TARG ROUTE.

TRREE CANOPY CALCULATIONS

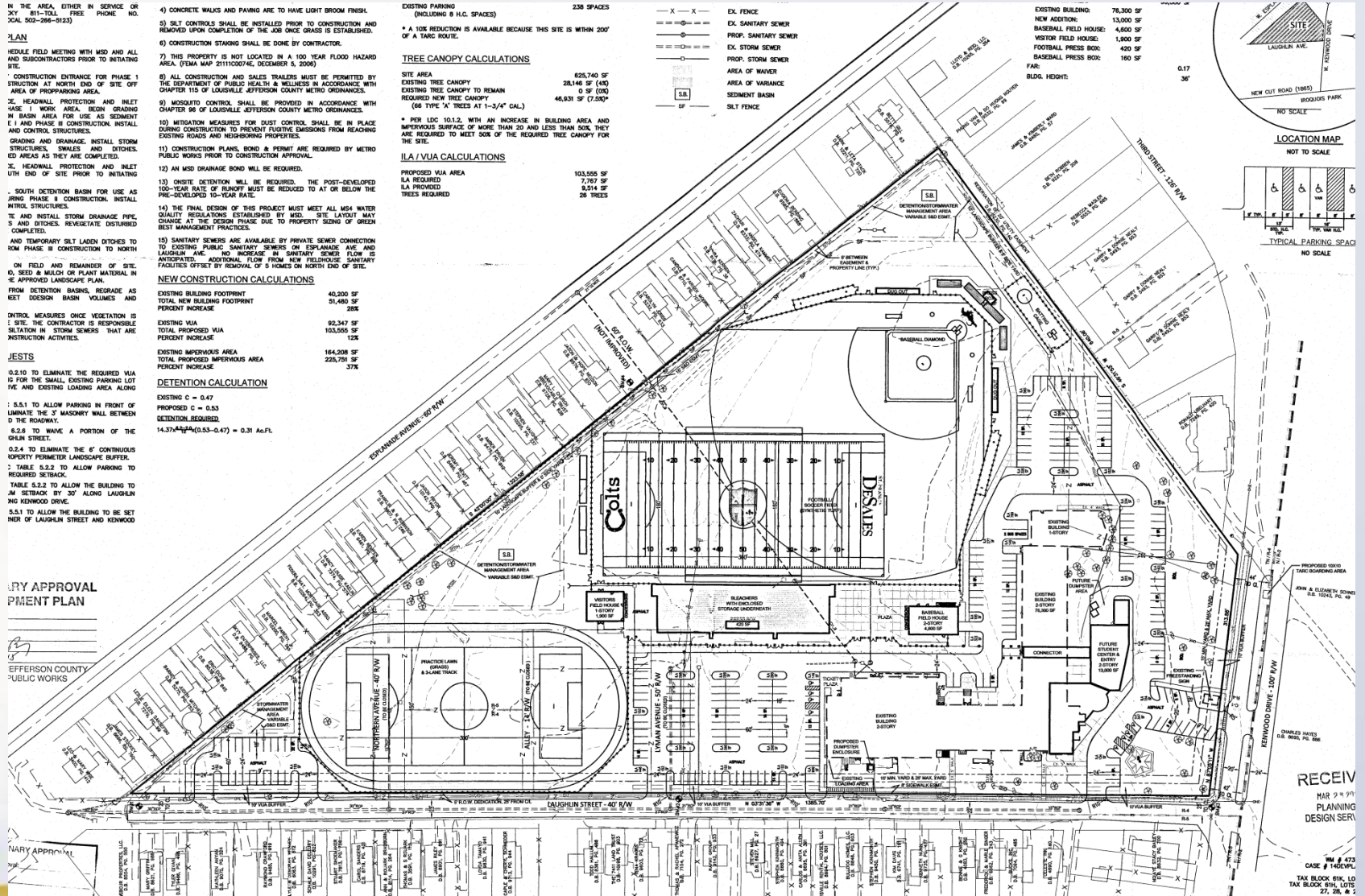
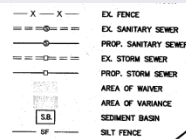
SITE AREA 625,740 SF
EXISTING TREE CANOPY 28,146 SF (4%)
EXISTING TREE CANOPY TO REMAIN 0 SF (0%)
REQUIRED NEW TREE CANOPY 48,632 SF (7.8%)
(66 TYPE "X" TREES AT 1-3/4" CAL.)

* PER LDC 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
9,214 SF
28 TREES

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ILA REQUIRED 7,767 SF
9,214 SF
28 TREES



RY APPROVAL
PMENT PLAN

JEFFERSON COUNTY
PUBLIC WORKS

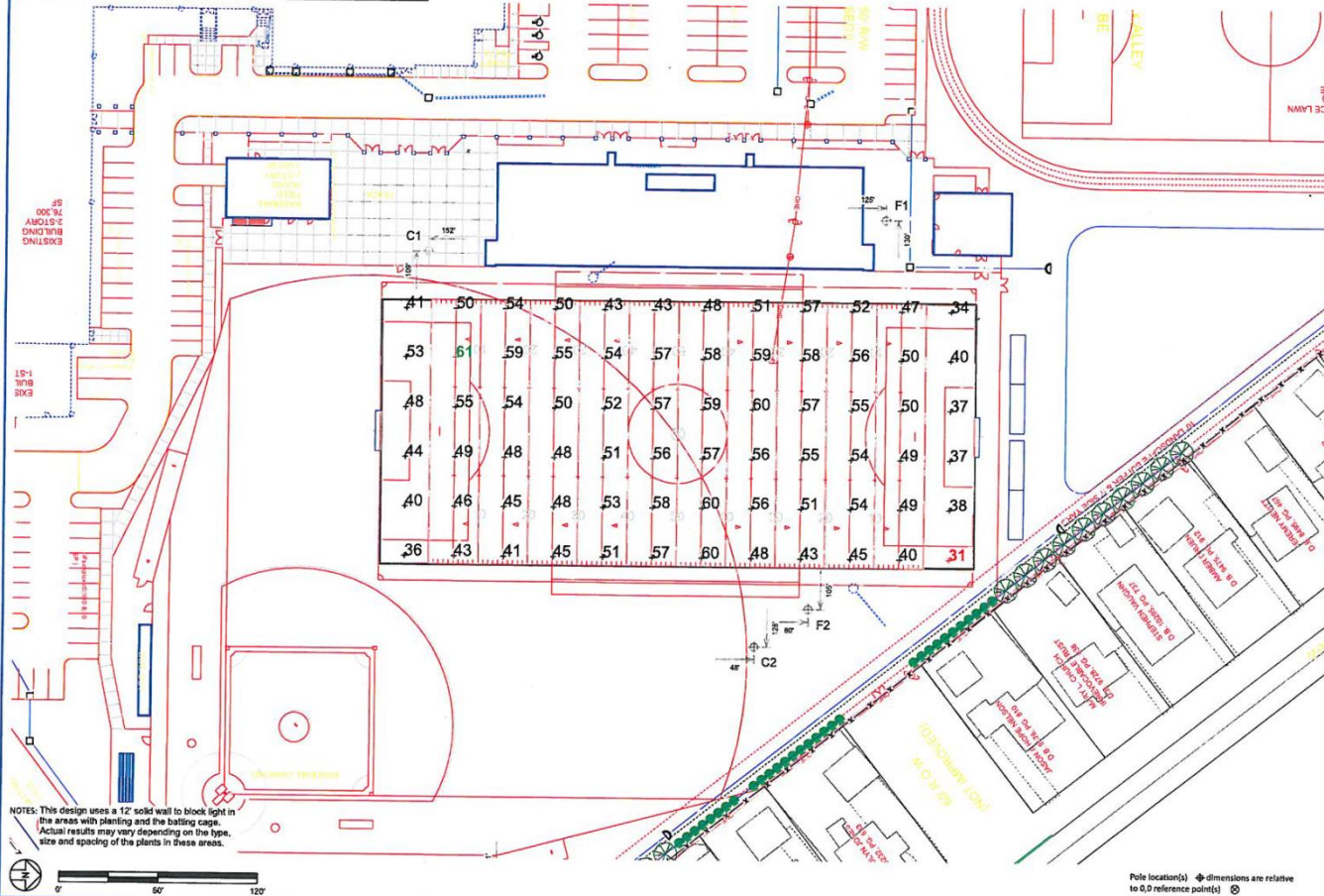
RECEIVED
HAR 2 9 11
PLANNING
DESIGN SERV

W 473
CASE # 170000
TAX BLOCK 816, LOTS
27, 28, & 29

Lighting Plan



EQUIPMENT LIST FOR AREAS SHOWN								
QTY	LOCATION	Pole		MOUNTING HEIGHT	Luminaires			
		SIZE	GRADE ELEVATION		LAMP TYPE	QTY / POLE	TYPE	OTHER
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
5	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

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.

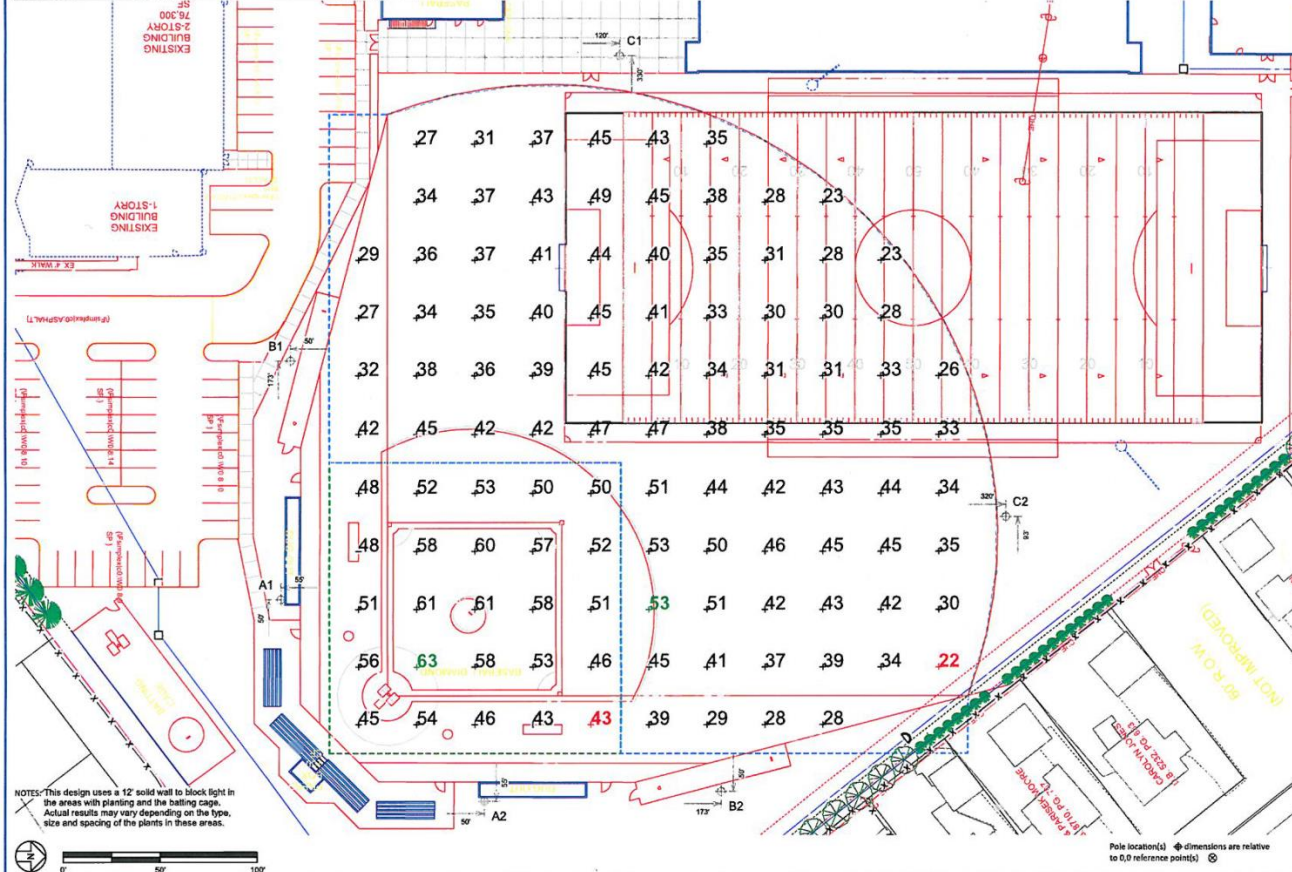
ENGINEERED DESIGN
 By: Cory Kitzman
 File # / Date: 1724778A 24-Apr-15

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ILLUMINATION SUMMARY

Lighting Plan

EQUIPMENT LIST FOR AREAS SHOWN									
Pole		Luminaires							
QTY	LOCATION	SIZE	GRADE	HEIGHT	LAMP TYPE	QTY	SIZE	OTHER	
2	A1-A2	70'	-	70'	1500W MZ	5	5	0	
3	B1	80'	-	80'	1500W MZ	9	9	0	
3	B3	80'	-	80'	1500W MZ	12	12	0	
3	C1	80'	-	80'	1500W MZ	14	9	5	
3	C2	70'	-	70'	1500W MZ	7	6	1	
TOTALS						52	46	6	



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

GRID SUMMARY
 Name: Baseball
 Size: 300' / 350' / 300' - basepath 90'
 Spacing: 30.0' x 30.0'
 Height: 3.0' above grade

CONSTANT ILLUMINATION		
SUMMARY	Infield	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.

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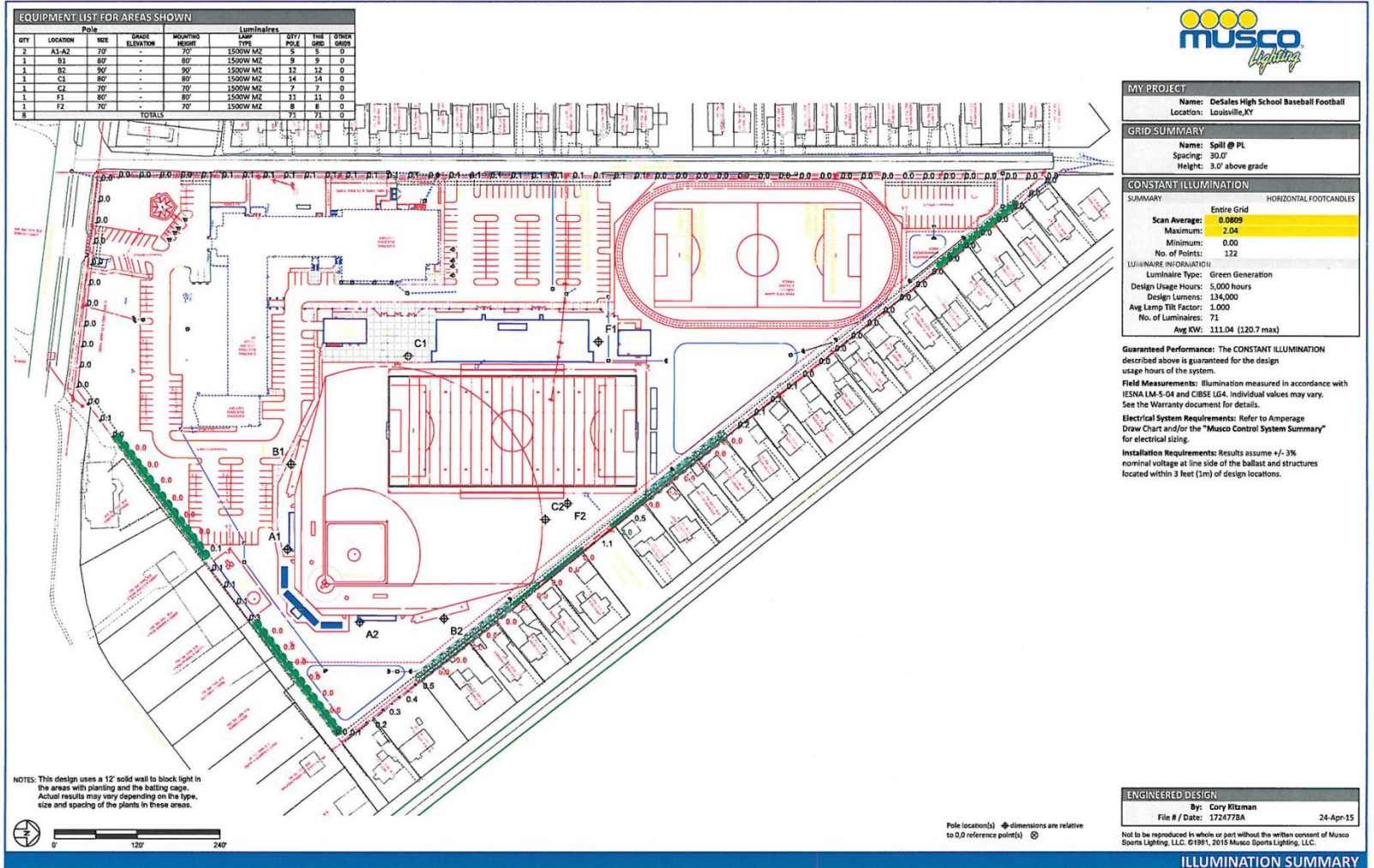
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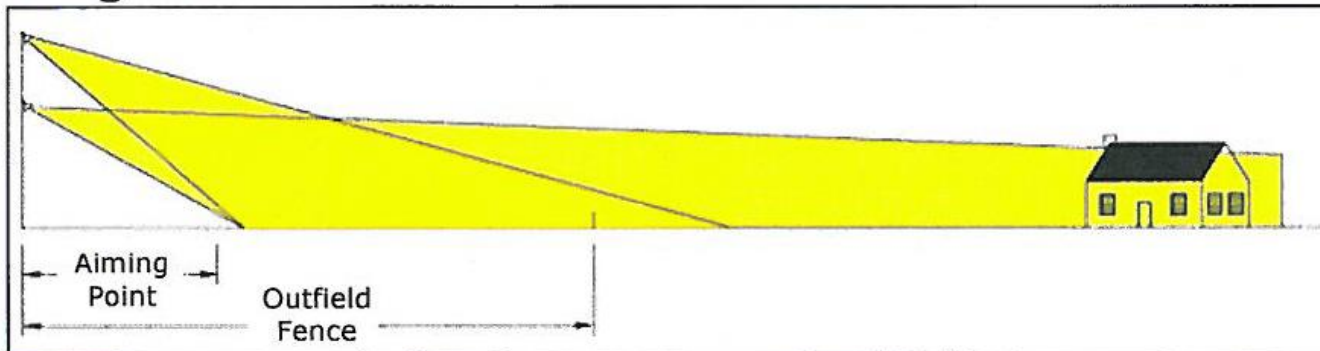
Lighting Plan





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

