



**GLEN ELLYN
PARK DISTRICT**

Newton Park Turf Field Light Project

November 2, 2016

www.gepark.org

AGENDA

- I. Summary of Proposed Project**
- II. Concerns**
- III. Adjustments**
- IV. FAQ**
- V. Questions/Comments**
- VI. Closing**

PROPOSAL

Newton Park Upper Field Directional Athletic Lights Proposal





**GLEN ELLYN
PARK DISTRICT**

Newton Park Lighting System

www.gepark.org

LIGHTING SYSTEM

- Lighting System Includes:

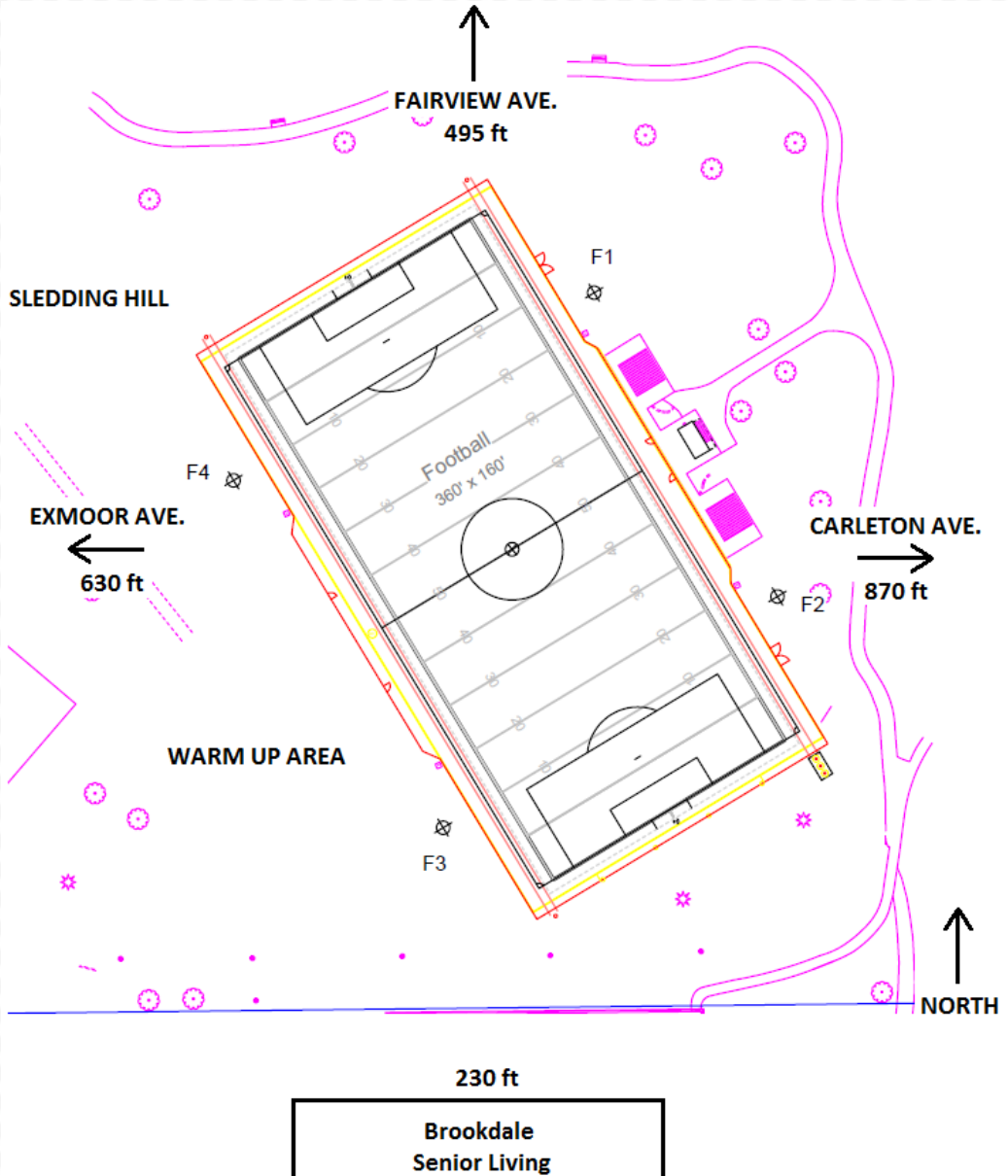
- Four (4) Poles
- 70' High
- Three Zones (each which is able to be operated independent of the others)
 - Synthetic Turf Multi-Use Field
 - Warm Up Area (adjacent to southwest corner of the synthetic turf field)
 - Sled Hill
- Eleven (11) fixtures per pole with two additional lights (20' high) on the west poles for Warm Up and Sled Hill areas.

LIGHTING TECHNOLOGY

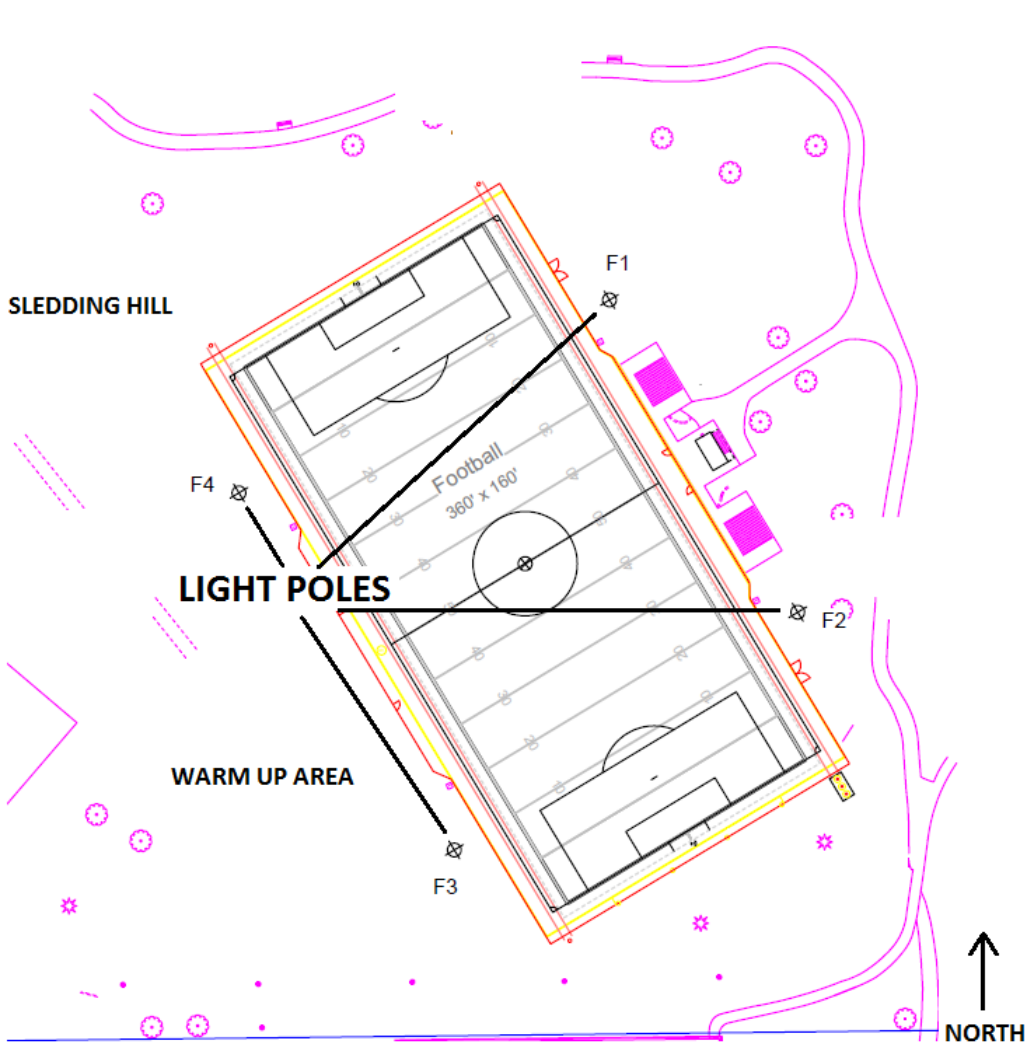
- Musco – Structure Green LED Lighting:

- Reduces Light Spill
- Provides Guaranteed Light Levels
- Reduces Operating Costs
- Ten (10) Year Warranty
- Monitoring System (Control Link)
- Cost: \$220,000

NEWTON TURF MULTI-USE ATHLETIC FIELD



NEWTON TURF MULTI-USE ATHLETIC FIELD



FOOTCANDLES

- Athletic field light levels are measured in Footcandles.

- Footcandle:

Unit of luminance or illumination, equivalent to the illumination produced by a source of one candle at a distance of one foot

- Typical Footcandle Levels:

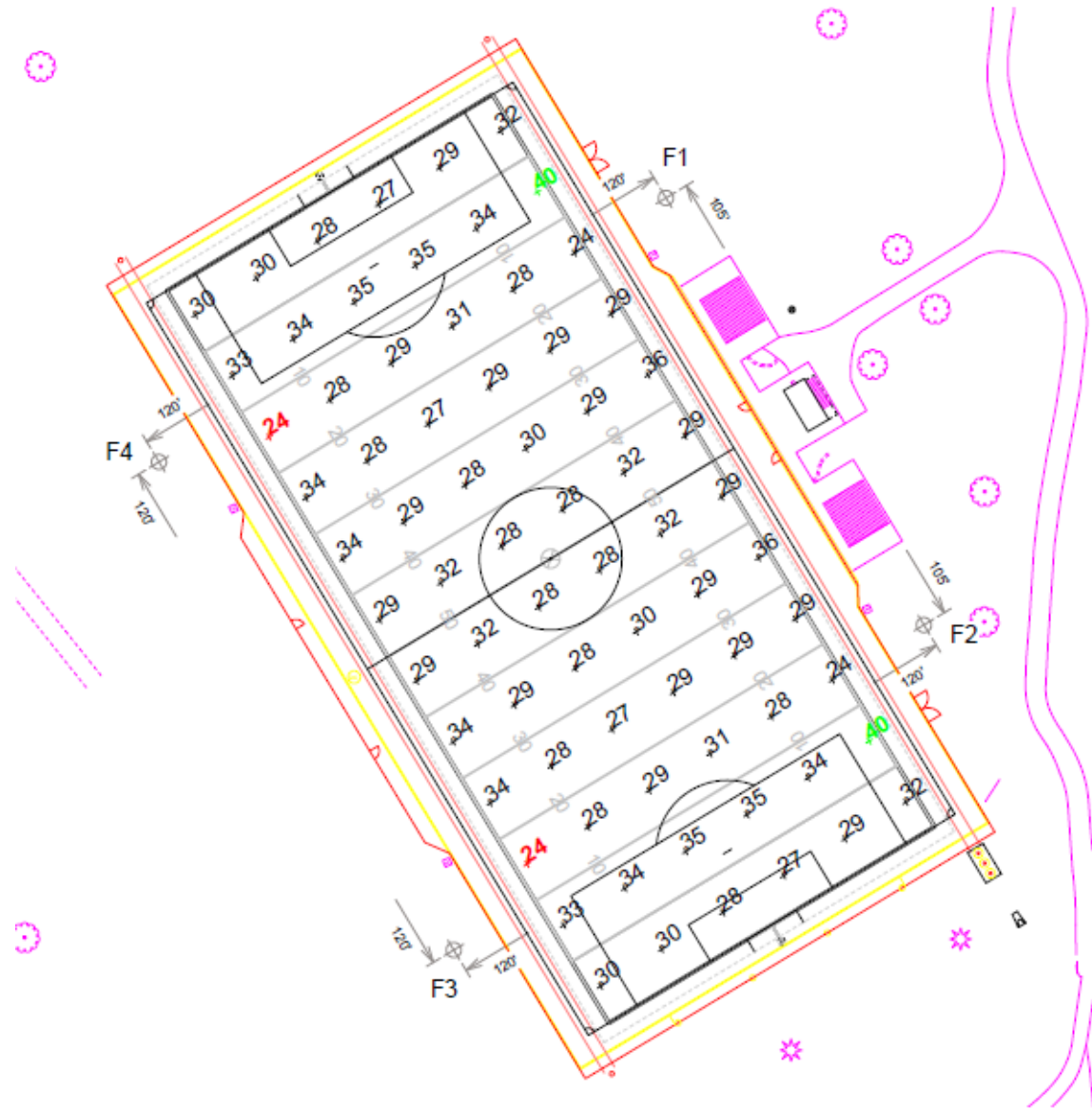
- Office	30 fc
- Shopping Mall	30 fc
- Class Room	50fc
- Basketball Court (Indoor)	75fc
- Parking Lot	4 fc

NEWTON PARK LIGHT LEVELS

Multi-use Field

High: 40 Foot Candles

Low: 24 Foot Candles

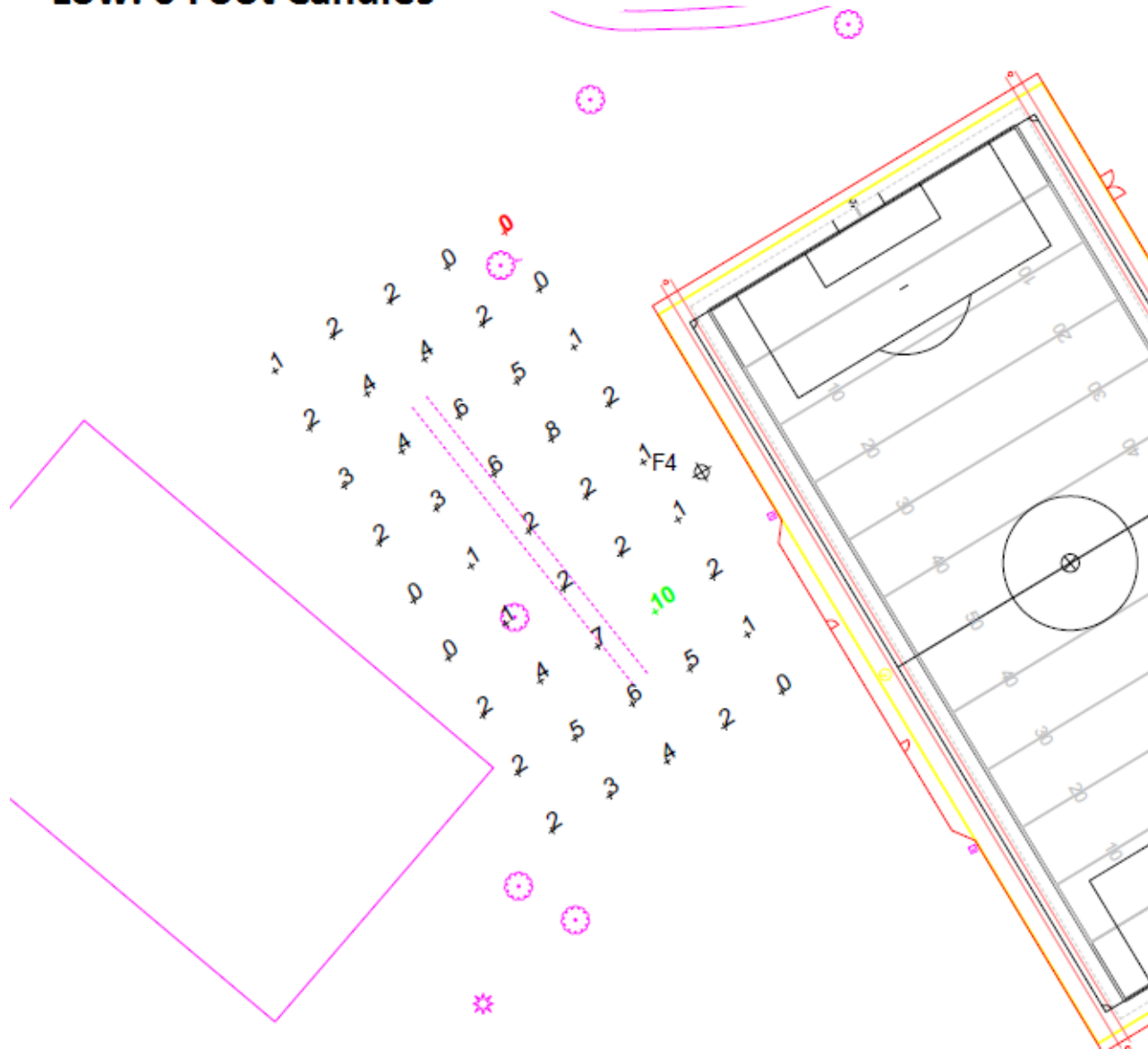


NEWTON PARK LIGHT LEVELS

Sledding Hill

High: 10 Foot Candles

Low: 0 Foot Candles

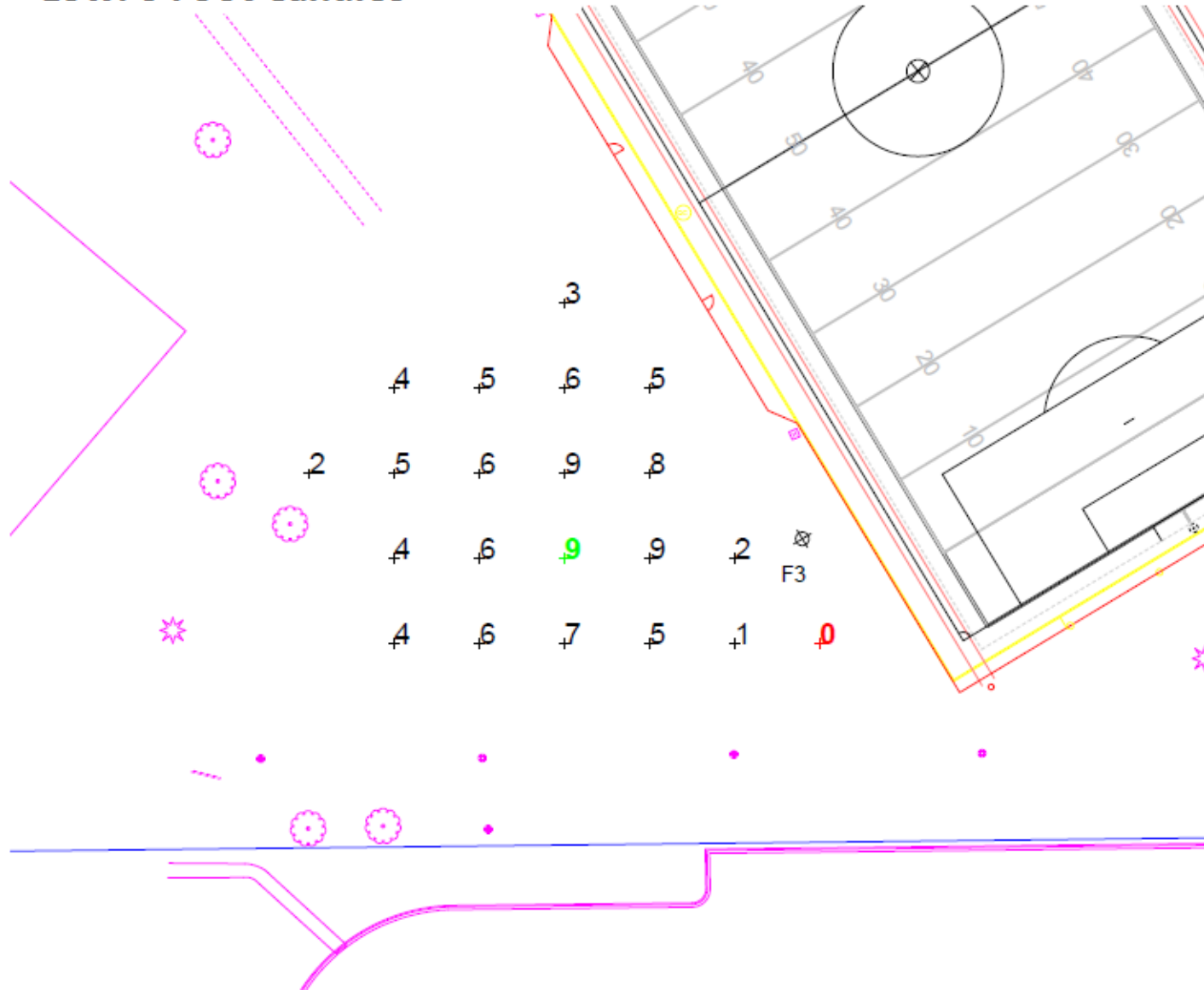


NEWTON PARK LIGHT LEVELS

Warm Up Area

High: 9 Foot Candles

Low: 0 Foot Candles



NEWTON PARK LIGHT LEVELS

GEPD Property Line

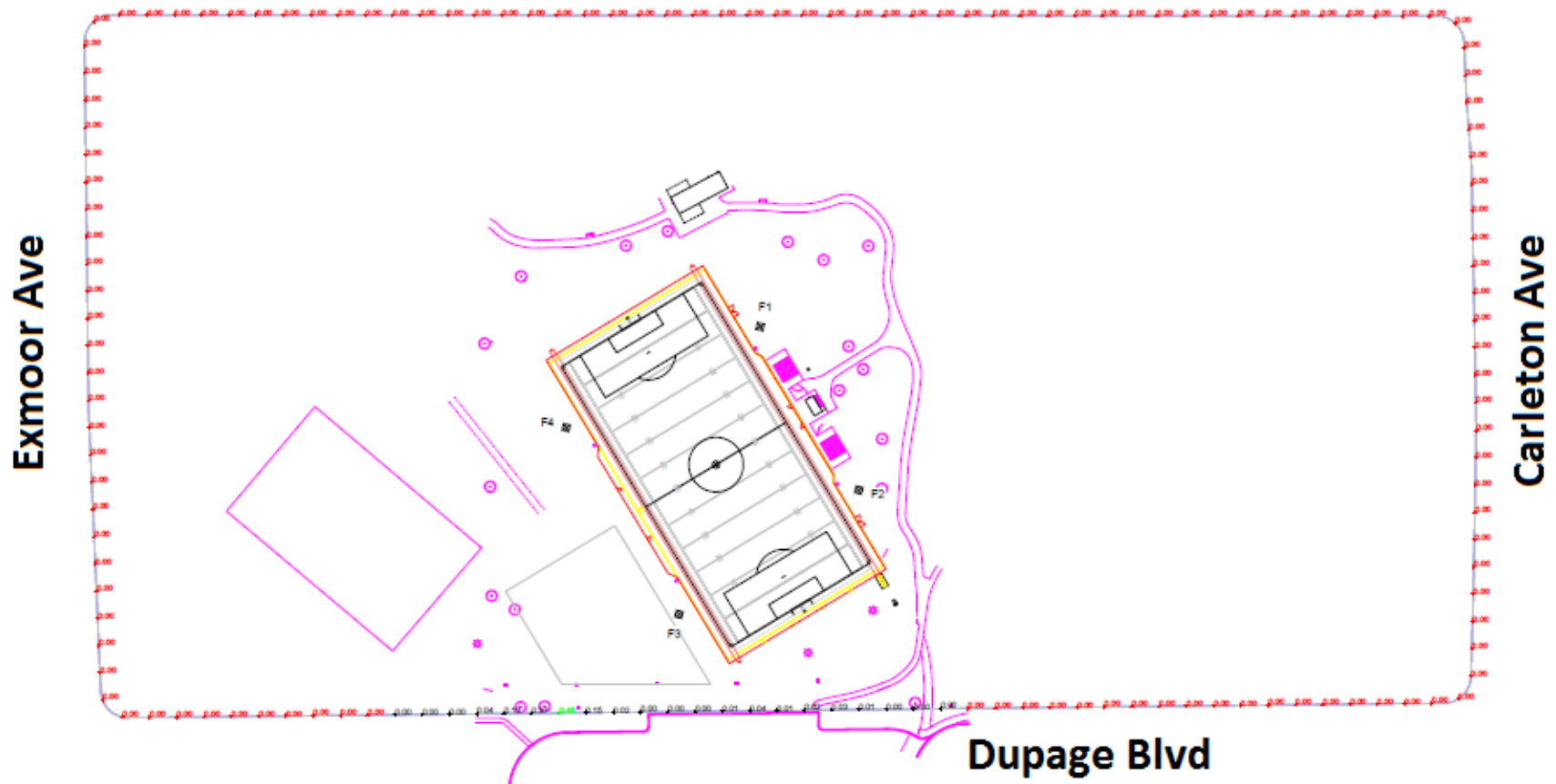
Exmoor Ave: 0 Foot Candles

Fairview Ave: 0 Foot Candles

Carleton Ave: 0 Foot Candles

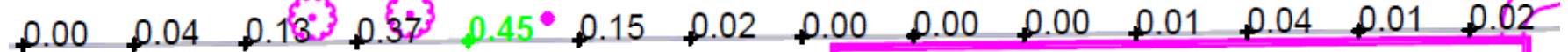
Dupage Blvd: 1.23 Foot Candles

Fairview Ave



**Highest light reading
on the property line
(complies with the
Village Lighting Code)**

F3



**Brookdale
Senior Living**

LED LIGHTING VS. HID LIGHTING

- Nashaminy High School, Langhorne, PA

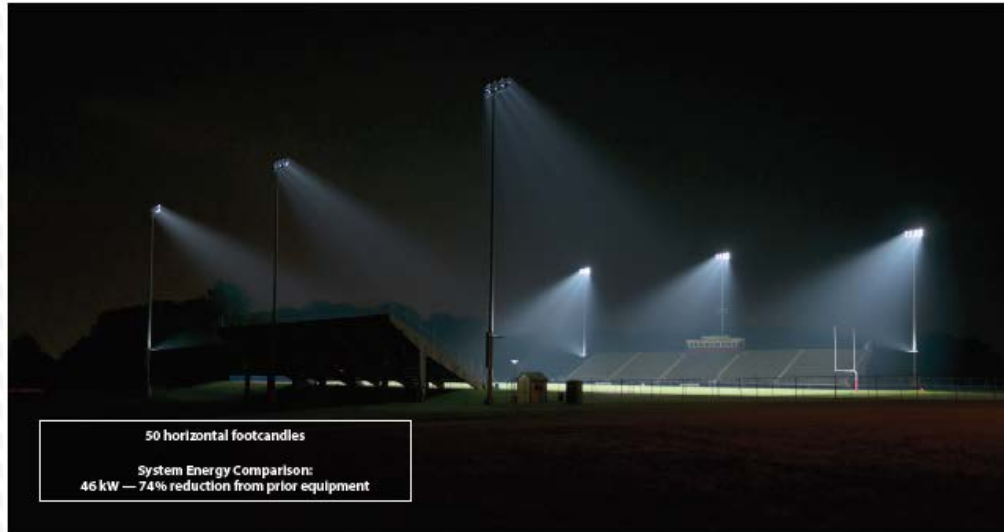
Before — HID Light Source



LED LIGHTING VS. HID LIGHTING

Neshaminy High School — Langhorne, Pennsylvania, USA

After — Musco LED Lighting



Before — HID Light Source



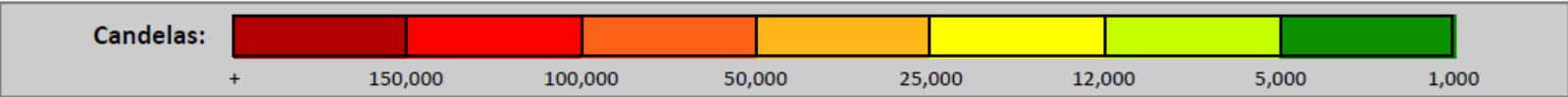
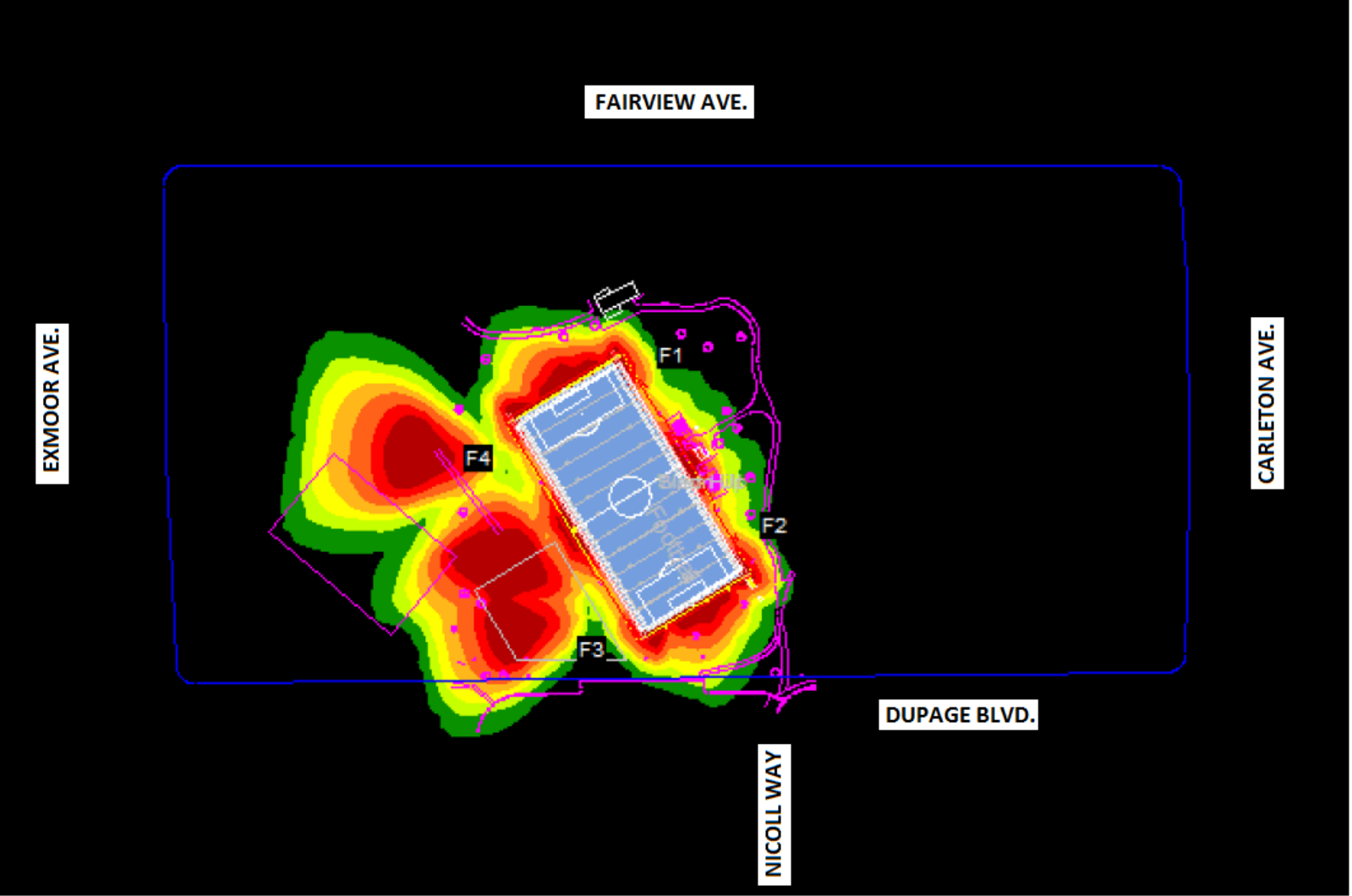
LED LIGHTING VS. HID LIGHTING

- Nashaminy High School, Langhorne, PA

After — Musco LED Lighting



GLARE READINGS



High Glare: 150,000 or more candela

Significant Glare: 25,000 to 75,000 candela

Minimal to No Glare: 500 or less candela

LED LIGHTING VS. HID LIGHTING

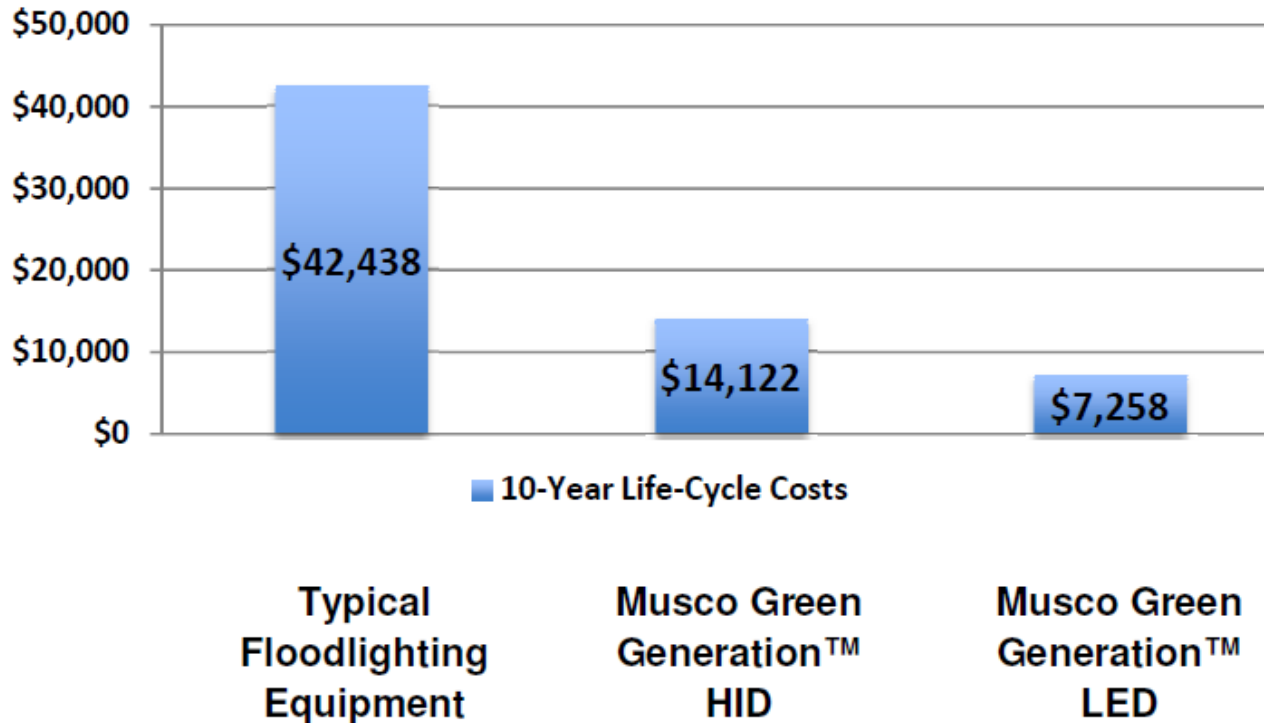
10-Year Life-Cycle Cost Comparison

Newton Park Multipurpose

Football Field

September 14, 2016

Warranty Period: 10 Years



LIGHT MONITORING SYSTEM

- Control-Link®

- Control-Link® is the reliable, cost-effective system that helps control, monitor, and manage lighting
- Control-Link Central team is staffed 24/7 to assist with scheduling and reporting needs
- Control-Link Central® provides three options for management and control of your facilities:
 - Directly control fields via website
 - Enter, edit, and update your schedules from a smart phone
 - Contact Control-Link Central's team directly to enter schedules and request last minute changes



**GLEN ELLYN
PARK DISTRICT**

Village of Glen Ellyn Lighting Variance

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VARIANCE

- Pole Spacing

- The minimum spacing between poles is four (4) times the mounting height required by Section 10-5-13(M)2(b)1 of the Zoning Code.

- Pole Height

- The height of the proposed poles may not exceed the height of the principle structure (Concession Building), Section 10-5-13(M)2(c) of the Zoning Code.

- Illumination Levels

- Complies with the Village Zoning Code

VARIANCE

-Variance Process

- Meet with Village Planning & Development (Completed)
- Create a Newton Park Lighting Variance packet requesting approval of zoning variations with regard to the installation of 4 light poles at Newton Park (1 month)
- Submit variance packet and await the Village's response (3 weeks)
- Make changes if needed and resubmit variance packet to the Village (2 weeks)
- Once approved the variance request will be placed on the agenda for the next available Plan Commission meeting (1 month)
- The Park District will present a formal variance request to the Plan Commission and answer any questions
- If approved the variance request will be placed on the agenda for next available Village Board meeting (3 weeks)
- The Village Board makes the final decision on whether the variance request will be granted



GLEN ELLYN
PARK DISTRICT

Construction

www.gepark.org

CONSTRUCTION SCHEDULE

- Bidding Project (January 2017)

- Formal Bidding Process
- Cooperative Purchasing

- Submit Permit Applications (April 2017)

- Village of Glen Ellyn
- ComEd

- Begin Construction (July 2017)

- Project Completion (Before School Starts)



GLEN ELLYN
PARK DISTRICT

CONCERNS

www.gepark.org

CONCERNS

-Parking:

- **Parking within the cul de sacs as a result of Newton Park activities**
- **Safety within the cul de sacs including parking on both sides of the road**
- **Parking violations (in front of fire hydrant, blocking driveways, etc.)**
- **Parking demands will be extended into the later evenings due to nighttime park activity**
- **Inability to utilize cul de sac by the residents**
- **Littering**

CONCERNS

-Traffic:

- Fairview Avenue is a busy thoroughfare
- Drop-off for Park events occur on Fairview Avenue and the Park
- Turn around within the cul de sacs
- Distracted drivers

CONCERNS

-Character of Park:

- Newton Park is not an athletic park
- Taking away green space

CONCERNS

-Alternate Sites:

- This project and/or activities can be relocated to Ackerman Park and/or Village Green



CONCERNS

-Noise:

- The Park will have increased opportunity for noise



CONCERNS

Future Plans for Newton Park

What is next?



**GLEN ELLYN
PARK DISTRICT**

ADJUSTMENT/RESPONSES

ADJUSTMENT/RESPONSES

-Parking: The Park District recognizes the impact that park activity has on the cul de sacs on occasions. In order to improve and address the activity, it is proposed to do the following:

Village/Police

The Village of Glen Ellyn and Glen Ellyn Police are willing to meet with residents who reside within cul de sacs (Exmoor, Milton, Montclair, Nicoll, Taylor and Carleton) to develop mutually agreed parking rules.

Glen Ellyn Park District

The District will implement a parking plan that will direct parking into the designated lots and out of the cul de sacs.

ADJUSTMENT/RESPONSES

-Parking continued:

Glen Ellyn Park District:

Newton Park activity parking will be directed to designated areas only.

There are four (4) parking lots located within Newton Park (168 total spots):

- Northwest corner of park adjacent to the playground (Fairview Avenue & Exmoor Avenue)
- Northeast corner of the park adjacent to the tennis courts (Fairview Avenue & Carleton Avenue)
- East side of the park adjacent to the basketball court (Carleton Avenue)
- South side of the park across from Brookdale Glen Ellyn (DuPage Avenue)

ADJUSTMENT/RESPONSES

-Parking continued:

Glen Ellyn Park District:

In addition, park users will be directed not to park or use the cul de sacs for drop-off/pick-up or turn around within the following cul de sacs:

- N. Milton Avenue
- Montclair Avenue
- Nicoll Avenue
- Taylor Avenue
- Carleton Avenue
- Exmoor Avenue

ADJUSTMENT/RESPONSES

-Parking continued:

Glen Ellyn Park District:

Overflow parking is available at Stahelin Properties to the south of the park off of DuPage Boulevard on evenings and weekends.

Patrons are directed not to park in the Post Office, Brookdale Senior Living or Atria Park properties. Violators are subject to issuance of tickets and may be towed. The District is in discussion with Atria regarding formal use of the small east lot.

School Bus parking related to park usage is limited to the northeast lot (Fairview Avenue & Carleton Avenue). No idling of buses is permitted. If parking is limited, buses will be directed to park at the Spring Avenue Recreation Center, Sunset Pool or Baker Hill properties during practices/games.

Directional signage will be installed and information regarding parking and drop-off/pick-up procedures will be posted on the Glen Ellyn Park District website, program websites, and will be distributed by print or electronic means to program participants, Glenbard West and all visiting teams.

Staff and program volunteers will provide oversight to ensure that the plan is being adhered to.

ADJUSTMENT/RESPONSES

- Traffic

As part of the parking and park etiquette procedure, no drop off along Fairview Avenue will be designated. It will also be reiterated not to use cul de sacs for that purpose either.

No drop-off/pick-up signs will be added along Fairview and Newton Park.

To encourage use of East parking lot, a walking path will be installed from lot to concession building.

Add turnaround in West lot at south end which can be used for drop-off.

ADJUSTMENT/RESPONSES

PARKING & PATHWAY IMPROVEMENTS



ADJUSTMENT/RESPONSES

-Character of Park

Newton Park was originally developed in 1957 as property that hosted baseball and softball along with outdoor ice skating. In 1963, the park became the home site for youth football activities. As homes began to be constructed along Fairview and the cul de sacs, other park amenities began to be added. Usage has evolved to adapt.



ADJUSTMENT/RESPONSES

-Alternative Sites

Several years ago, the Park District was tasked to improve the quality of it's athletic fields.

The primary challenge was the overuse and cross use of the fields; i.e. football using baseball fields, not resting soccer fields, use of softball outfields.

Recommendations included moving football off of baseball fields, developing a Master Plan for Ackerman Park, increase the availability of Upper Newton Park field, create additional opportunities for rectangular shaped fields. At no time was the direction or recommendation to place further demand at Ackerman Park and Village Green with additional sports.

ADJUSTMENT/RESPONSES

-Athletic Light Curfew

The athletic lighting shall be available until 9:30 p.m. with shut off at 10:00 p.m. Monday – Saturday

The athletic lighting shall be available until 8:00 p.m. with shut off at 8:30 p.m. Sunday

Blackout months for athletic lights will be December – February and July

Sledding Hill light will be on until 9:00 p.m. (consistent with outdoor skating lights) and only when the conditions are appropriate for sledding.

Lighting will remain off at times/dates when the field is not in use

No portable lights will be used for athletic activities throughout the year.

ADJUSTMENT/RESPONSES

-Amplified Sound

Use of amplified sound for sports programs utilizing the synthetic turf field is prohibited except during Golden Eagles Football games, Golden Eagles Football Jamboree and Cheerleading Showcase and is limited between the hours of 9:00 a.m. and 7:00 p.m. (Sunday-Saturday).

- Golden Eagles tackle football games are scheduled on weekends from late-August through mid-November at the discretion of the Bill George Youth Football League
- Football Jamboree is traditionally held the 2nd or 3rd weekend in August (depending on the calendar)
- Cheerleading Showcase is held during the week in mid-August

Events unrelated to use of athletic fields including Park District special events such as Movies in the Park (or other family events) and the Hephzibah 5K race may use a sound system with permission of the Park District.

ADJUSTMENT/RESPONSES

- Future Plan of Newton Park

With the exception of maintaining and improving existing assets, there are currently no plans to implement further significant improvements.

Provisions restricting these types of potential improvements along with the restrictions may be included as a requirement by the Village for variance approval.



ADJUSTMENT/RESPONSES

-Create Newton Park Upper Field Special Advisory Committee:

The purpose of the committee is to revise and discuss any issues related to the use of the upper Newton Park synthetic turf field that may impact Newton Park neighborhood with a specific focus on the use of lights at the upper field. The Committee would meet three times a year or as needed.

Committee will consist of:

- 3 members from neighborhoods as appointed by GEPD Director
- 2 Glen Ellyn Park District Staff members as appointed by GEPD Director
- 1 Village of Glen Ellyn Police Representative appointed by the Village
- 1 GEPD Board of Commissioner Member



**GLEN ELLYN
PARK DISTRICT**

FAQ'S

www.gepark.org

FAQ'S

1. Will there be rentals to outside user groups? i.e. men's adult soccer league

The field usage under lights is to be used only by Glen Ellyn Park District affiliated programs and Glenbard West High School. The High School has use of the field into the evening (9:00 p.m.) on Wednesday in the fall and Wednesday and Friday evening (9:00 p.m.) in the Spring. It is not anticipated that Glenbard West will have heavy usage under the lights as they are primarily interested in after school opportunities and will also prioritize use of on campus Memorial Field before Newton Park.

FAQ'S

2. Why do the light poles have to be 70 feet in height?

The poles are set at 70' high to maximize the foot candles on the playing field without adding glare and light spillage beyond the intended area. If the poles were set at 50' the lights would have to be set at a higher angle which would increase the likelihood of seeing the actual bulbs creating heavy glare and spillage. The intent is to have a well lit field with as minimal glare and spillage as possible (Dark Sky).

FAQ'S

3. Why the need to go until 9:30/10:00 p.m.

We agree that the majority of the Park District programs will end earlier. The District wants to retain the ability to utilize the lights on those few occasions that are necessary to go beyond 9:00 p.m. Keep in mind the lights will not be turned on when not required and will be turned off after the scheduled use.

FAQ'S

4. Why can't current portable lights be used?

The portable lights are less expensive but are just that portable and not meant for continuous long-term usage. While smaller, the portable lights actually provide much greater light pollution creating more glare and spillage well beyond the fields. Additionally, the units run on diesel so they generate pollution and noise when in operation. Finally, the lighting that is being provided does not meet what the industry would qualify as a minimal standard. Obviously, football and soccer programs have been able to manage previously but it was due to need and lack of alternative space. Portable light towers have not been used for such activities such as lacrosse as the ball/stick nature of those programs rely on much more consistent , appropriate and safe lighting conditions.

FAQ'S

5. Is this fiscally responsible?

The Park District is extremely fiscally responsible. Over the past several years it has established independent commitments such as playground replacements, parking lot repairs, hvac improvements and Sunset Pool upkeep in addition to funding larger improvements including Lake Ellyn Park and Boathouse and athletic field upgrades. The Newton Park upper field is a great example of this fiscal responsibility and accountability. The synthetic turf project was identified as a means to help improve the overall athletic field inventory and quality. A funding component was created in collaboration with Glenbard High School District 87, Golden Eagles Football, Lakers Soccer and the Park District to offset all related expenses. Included was a funding component for the installation and future replacement which was reviewed and vetted by the Citizen's Finance Committee as well as for athletic lights should they be installed at the field at a later time. While the District would fund the initial installation expense of the lights, over the life of the lights, the cost will

FAQ'S

5. Is this fiscally responsible cont.?

be recouped by an increase in revenue from the Intergovernmental Agreement with District 87. The outcome is that a previously underutilized community resource has been improved to increase accessibility while paying for itself. It also serves as mutual benefit for both the Glen Ellyn Park District and Glenbard West High School, an excellent example of maximizing public resources to better serve shared constituents. Citizens Finance Committee, achieved a AA+ bond rating (of which there are only five other park districts with that rating), increased and met its 25% fund balance policy, increased the annual operating surplus to over \$1 million per year which in turn gets reinvested back into the District and community, and created an ongoing business plan for the Ackerman Sports and Fitness Center increasing the operating net from \$50,000 to nearly \$500,000 with over 5,000 members amongst many initiatives. In 2017, the Glen Ellyn Park District will have the lowest tax rate amongst comparable DuPage County Park Districts. (Currently it is the 3rd lowest among 19).

FAQ'S

5. Is this fiscally responsible cont.?

The Park District has established a fluid five year capitol replacement/improvement plan identifying ongoing commitments such as playground replacements, parking lot repairs, hvac improvements and Sunset Pool upkeep in addition to funding larger improvements including Lake Ellyn Park and Boathouse and athletic field upgrades. The Newton Park upper field is a great example of this fiscal responsibility and accountability. The synthetic turf project was identified as a means to help improve the overall athletic field inventory and quality. A funding component was created in collaboration with Glenbard High School District 87, Golden Eagles Football, Lakers Soccer and the Park District to offset all related expenses. Included was a funding component for the installation and future replacement which was reviewed and vetted by the Citizen's Finance Committee as well as for athletic lights should they be installed at the field at a later time. While the District would fund the initial installation expense of the lights, over the life of the lights, the cost will be recouped by an increase in revenue from the Intergovernmental

FAQ'S

5. Is this fiscally responsible cont.?

Agreement with District 87. The outcome is that a previously underutilized community resource has been improved to increase accessibility while paying for itself. It also serves as mutual benefit for both the Glen Ellyn Park District and Glenbard West High School. An excellent example of maximizing public resources to better serve shared constituents.

FAQ'S

6. The Park District is in the process of installing lights at Ackerman Park?

The current lights which are being replaced at Ackerman Park within the lower area just north of the softball hub are nearly 40 years old and are well past their useful life. The antiquated lights are being replaced with a similar number of poles but will be significantly more efficient and economical while serving the soccer and softball programs. These improvements along with park usage and demand were identified in the Ackerman Park Master Plan which was drafted and approved a few years back. The replacement of the athletic lights and the removal of two softball fields closest to the Great Western Trail were the first recommendations from the Master Plan that have been implemented.

The District presently has athletic lights at Village Green which primarily serves the youth baseball program (spring, summer, and fall) and Glenbard West High School baseball program (spring, summer) along with some football activity (practices) in the fall.

FAQ'S

7. I heard there is declining enrollment in youth sports within the Park District?

Enrollment has declined in some programs and increased in others while new sports have emerged. Football remains consistent with increased participation in flag and slowing growth in tackle. Boy's lacrosse and rugby continue to grow, as does girl's field hockey. Baseball has stabilized at approximately 1,000 participants, while softball experienced increased participation this past year. As participants are specializing and choosing to participate in only one or two sports, enrollment has to be viewed differently. Each athletic program has many more opportunities and commitments than in years past (including offseason training and multiple seasons during a calendar year) causing athletes to commit to only one or maybe two sports. Finally, athletics remains the largest revenue producer amongst all recreation programs for the park district producing funds to self support while reinvesting back into their respective areas such as baseball contributing to field improvements (irrigation, infield mix, dugout covers) at Village Green and football funding the synthetic turf installation and purchasing new helmets. The programs then also contribute to the general fund which largely goes towards capital projects that benefit the entire community.

FAQ'S

8. I am concerned on the effect the lights could have on the immediate neighborhood?

The proposed lighting is for one field that is considerable distance from any single family residence. The after dark usage is confined to one field where as during daylight hours the entire park is available for use and programming. The directional lighting that is recommended is LED and has no spillage and lights the field in play (and nothing else) while conforming to current Village code. Lighting within the property has been occurring over time, as portable lights have been used throughout the park to allow for night usage in late fall. Additionally, outdoor ice skating in the winter goes until 9:00 p.m. Lighting is used at both the hockey rink and the skating area. A light curfew regarding light usage on the synthetic turf will be created along with possible blackout months in which the lights will not be turned on.

Again, the District is well aware of the activity that already takes place at Newton Park (even without lights), as the property has served as a community gathering spot for events and athletic programs for years. It is popular precisely because it provides tremendous open space and recreational opportunities for the both the immediate neighbors and the greater community. Newton Park has always been considered an athletic recreation park since early 1957 with four (4) ball diamonds, two football fields, and two tennis courts. Over the last 20 years, the Park District has added a skate park, outdoor basketball court, walking paths, outdoor shelter and improved concession building.

FAQ'S

9. Community Park vs. Athletic Facility?

Newton Park has been a property that has hosted significant athletic activities since the 1950's beginning with baseball and quickly becoming the home to the Glen Ellyn Golden Eagles youth football program. Activities have evolved over the years and the park has changed to serve the community and its' recreational needs. Adding lights allows the Park District to continue to serve its mission and provide recreational opportunities for the entire community, while enabling the park to continue to provide green space and park amenities to the immediate neighbors and park district residents.

FAQ'S

10. Effect on the essential character of the neighborhood?

The proposed lighting is for one field that is considerable distance from any single family residence. As mentioned above, the after dark usage is confined to one field where as during daylight hours the entire park is available for use and programming. The directional lighting that is recommended is LED and has no spillage and lights the field in play (and nothing else) while conforming to current Village code. Lighting within the property has been occurring over time, as portable lights have been used throughout the park to allow for night usage in late fall. Additionally, outdoor ice skating in the winter goes until 9:00 p.m. Lighting is used at both the hockey rink and the skating area. A light curfew regarding light usage on the synthetic turf will be created along with blackout months in which the lights will not be turned on.

Again, the District is well aware of the activity that already takes place at Newton Park (even without lights), as the property has served as a community gathering spot for events and athletic programs for years. It is popular precisely because it provides tremendous open space and recreational opportunities for the both the immediate neighbors and the greater community. Newton Park has always been considered an athletic recreation park since the early 1960's with four (4) ball diamonds, two football fields, and two tennis courts. Over the last 20 years, the Park District has added a skate park, outdoor basketball court, walking paths, outdoor shelter and improved concession building.

FAQ'S

11. What are the future plans for Newton Park?

With the exception of maintaining existing assets such as the playground, and other park amenities, there are currently no plans to do further significant improvements such as installing synthetic turf at lower Newton. There are also no plans for the sale of land to Glen Ellyn School District 41 or any other potential buyer. Newton Park has been integral to supporting the Park District mission since 1957.

Provisions restricting those types of potential improvements may be included as a requirement by the Village for variance approval of the project to further assure the neighbors.

FAQ'S

12. Is this an athletic hub?

However one defines the property, Newton Park has been a property that has hosted significant athletic activities since the 1950's beginning with baseball and quickly becoming the home to the Glen Ellyn Golden Eagles youth football program well before there were any nearby residences. Activities have evolved over the years and the park has changed to serve the community and its' recreational needs. Adding lights allows the Park District to continue to serve its mission and provide recreational opportunities for the entire community, while enabling the park to continue to provide desirable green space and park amenities to the immediate neighbors and park district residents.

FAQ'S

13. Is there required additional lights within the park? Paths, parking lots?

After discussion with the Village of Glen Ellyn, there are no additional required lights within the park.

14. What are the projected utility costs for the additional lights?

\$800 per year based on 300 hours of use (usage is anticipated to be lower than that)

FAQ'S

15. Is this effective use of the available fields including Ackerman Park and Village Green?

The additional available hours provide needed field space while relieving the need for crossover use of fields elsewhere. Several years ago, the Park District was tasked to improve the quality of its athletic fields. It was quickly recognized that one of the challenges was overuse and cross-use of existing fields along with scheduling sports on . An example by having football practice on baseball fields in the fall, the baseball fields are not able to be maintained at a minimal level in order to be prepared when the spring programs begin. Ackerman Park, a tremendous resource but never truly developed as a soccer facility was evaluated and it was determined that the current soccer/softball demand was significant and suggested immediate improvements included resting fields, upgrading athletic lighting and creating more green space for rectangular shaped field (soccer) while implementing longer term steps in the near future such as upgrading drainage, improving turf quality, soil remediation, and site grading. At no time did the report advocate adding additional sports and/or demand to the property.

Another component was replacing the natural grass field at Upper Newton to increase the availability of that field which in previous years was extremely limited. This would help move football off of fields at Village Green Park and also provide increased opportunities for lacrosse, field hockey, rugby and better serve Glenbard West who relies heavily on Park District fields.

FAQ'S

16. The Park District is taking away green space?

Lighting the existing field certainly does not take away green space. It actually increases the recreational opportunities. Additionally all the amenities within the park remain accessible and usable with or without the athletic lights.

17. What is Glenbard West anticipated usage for the evening times they are allotted?

Glenbard West has access to the field in the fall until 9:00 p.m. on Wednesday only and in the spring until 9:00 p.m. on Wednesday and Friday. The times and evenings can be used for practice and games. Football does not play games on Wednesday so the potential games would involve field hockey and soccer (Boys). In the spring, the field could serve lacrosse (boys and girls) and soccer (girls). It is important to note that Glenbard West will first use Memorial Field as it is on their campus and their goal is to have the high school event earlier.



**GLEN ELLYN
PARK DISTRICT**

QUESTIONS/COMMENTS

www.gepark.org