

UNIVERSITY OF HOUSTON
Campus Facilities Planning Committee
Agenda Item Description Form

- 1. Item:** Cullen Intramural Fields Lighting
- 2. Requesting Department:** Department of Campus Recreation
- 3. Contact Names & Phone Numbers:** Roger Warner, 3-6971
Kim Clark, 3-5478
- 4. Presenter:** Roger Warner
- 5. Recommendation/ Action Requested:** Approval of lighting installation.
- 6. Summary:**

The Department of Campus Recreation has embarked on a renovation to the Cullen Avenue Intramural Fields. The project was undertaken to address player safety issues due to uneven settling of the fields, fill debris being exposed in the playing surface and poor turf coverage. Additionally, the installation of parking lot 16G eliminated the largest sports field, leaving inadequate area for the University's intramural programs.

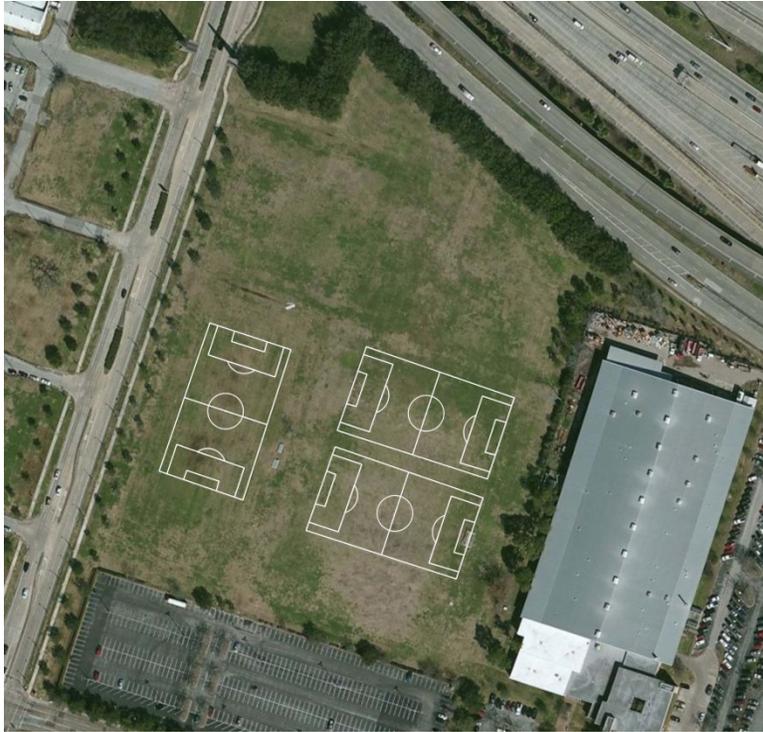
As part of the renovation, the Department of Campus Recreation deems it critical to install sports field lighting to allow for play after dark. This will enable the Department to extend playing hours and be able to host more student teams.

- 7. Proposed Start Date:** August 15, 2013
- 8. Supporting Documentation Description:**
- Pre and Post Parking Lot 16G installation
 - Manufacturer's Lighting Information
 - Field and lighting layout plan and rendering.

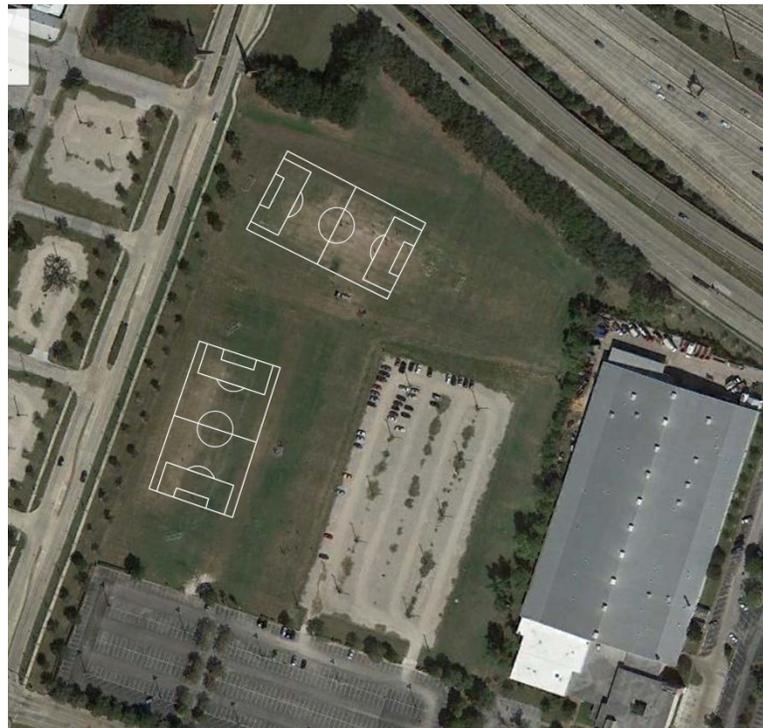
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Cullen Intramural Field Lighting



Pre-Parking Lot Field Layout

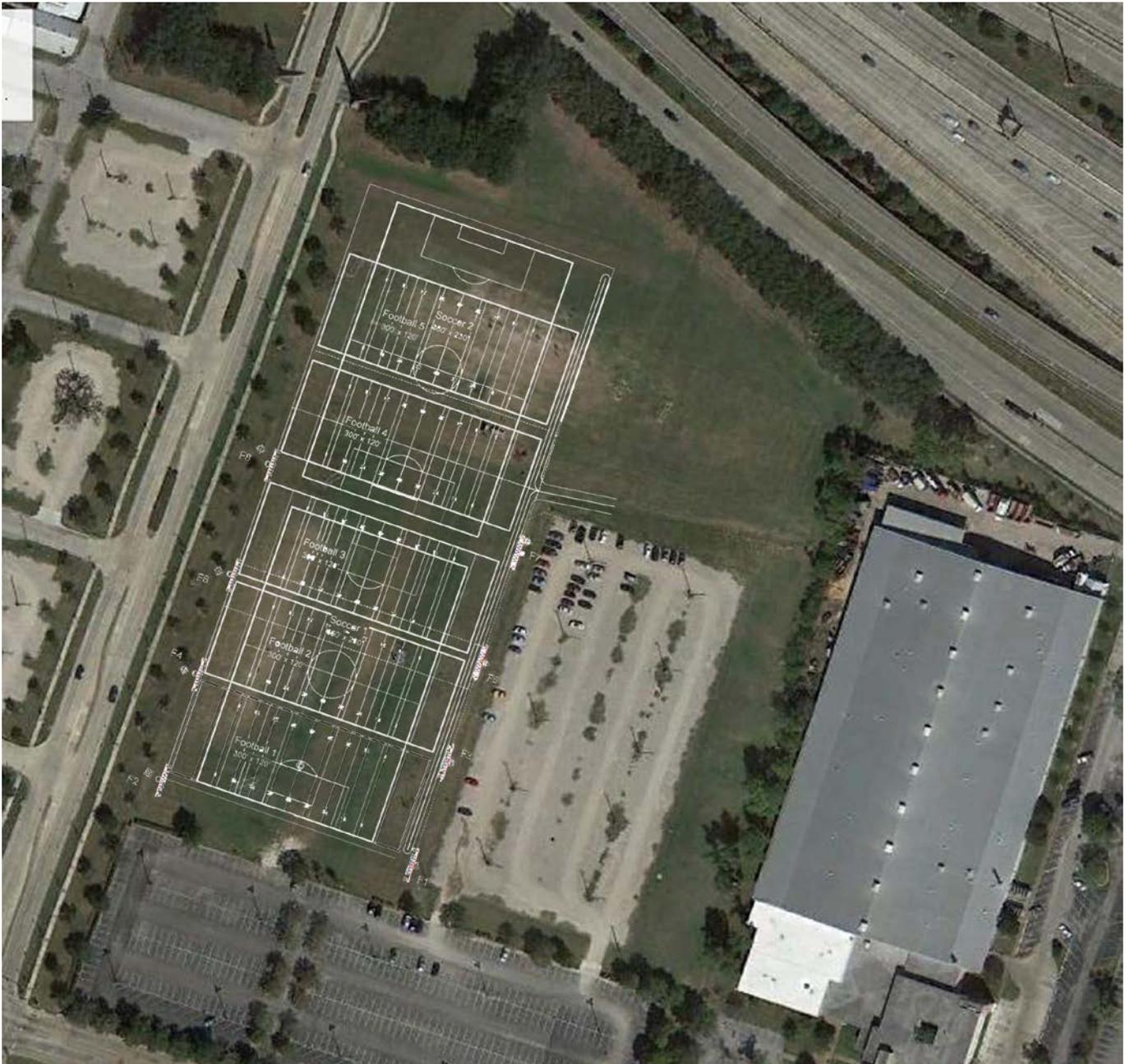


Post-Parking Lot Field Layout

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New Field Layout with Lighting

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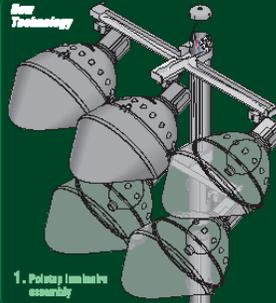
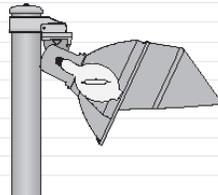
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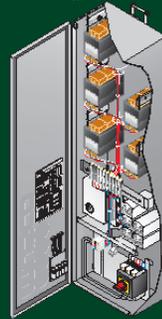
- Complete system from foundation-to-poletop
- Factory wired, aimed and tested
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Musco Constant 25™ 25-Year Warranty and Maintenance Program

Provides 25 years of trouble-free lighting equipment operation, including parts, labor and group lamp replacement.

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- Concrete backfill
- Underground wiring
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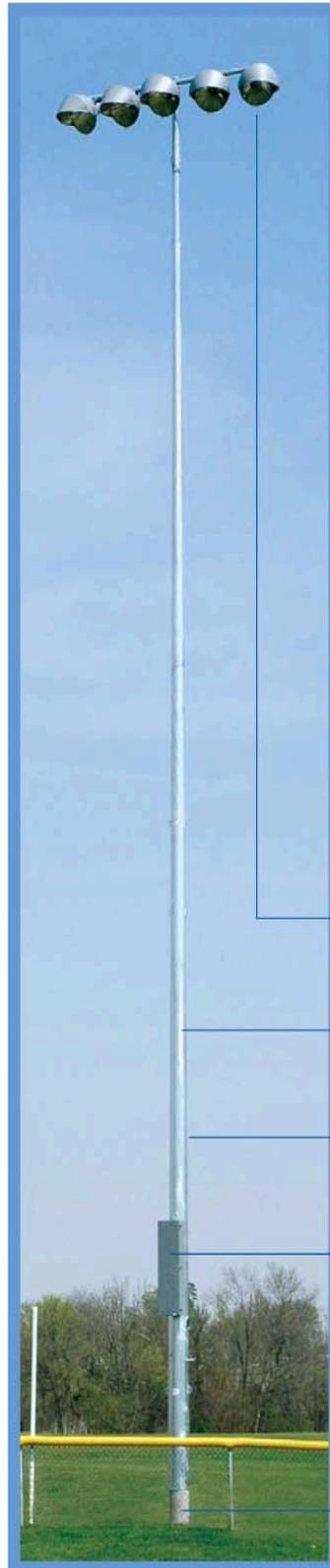
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Permanent Lighting



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New Technology:

- Cuts operating costs in half
- Reduces spill light by 50%
- Includes system monitoring and remote on/off control system
- Provides constant light levels

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- Complete system from foundation to poletop
- Factory wired, aimed and tested
- Fast, trouble-free installation
- Comprehensive corrosion package

Includes: **Musco Constant 25™ Warranty and Maintenance Program** provides 25 years of trouble-free lighting equipment operation, including parts, labor and group lamp replacement

1. **Poletop Luminaire Assembly**

2. **Wire Harness**
(protected inside pole)

3. **Galvanized Steel Pole**

4. **Electrical Components Enclosure**

5. **Precast Concrete Base**

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Before and After photographs taken with same camera at same settings:
Nikon D2 camera with 14mm lens; shutter speed - 1/4 sec.; lens aperture - f2.8; ISO - 125

26-Year Energy Savings: \$82,000

BARRON COLLIER HIGH SCHOOL COMPLEX
Naples, FL
325-foot baseball diamond - 50/30 constant footcandles
255,025/255-foot softball diamond - 50/30 constant footcandles

System Energy Consumption:
- Prior technology - 188 kW - New technology - 118 kW



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