A safe and sustainable case study: Walden Athletic Complex

CURT JACKSON, PLA, LEED AP, ASLA
CJACKSON@EBERLY.NET
SAFETY
SECURITY
AESTHETICS

PLAYERS
SPECTATORS
NEIGHBORS
HISTORY

STORMWATER

MEMORIAL

STORMWATER

SAFETY

RECYCLE

RESTORATION

PRESERVATION

SECURITY

STORMWATER
HONOR HISTORY

PRESERVATION OF FEATURES
SITE ANALYSIS
CONCEPT A ENHANCED
CONCEPT C
CONCEPT C ENHANCED
FIELD HOUSE - THE HUB
FIELD HOUSE & TREE PRESERVATION
STORMWATER
NATIVE PLANTINGS

- **AMERICAN ELM**
  - ULMUS AMERICANA

- **JUNCUS**
  - JUNCUS EFFUSUS

- **INKBERRY HOLLY**
  - ILEX GLABRA
NATIVE PLANTINGS

MUHLY GRASS
MUHLENBERGIA CAPILLARIS

HIBISCUS
HIBISCUS MOSCHEUTOS

PURPLE CONEFLOWER
ECHINACEA PURPUREA
STORMWATER PLANTINGS

### PLANT SCHEDULE BIORETENTION

<table>
<thead>
<tr>
<th>TREES</th>
<th>CODE</th>
<th>BOTANICAL / COMMON NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MG</td>
<td>METASEQUOIA GYPTOSTROBOIDES / DAWN REDWOOD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SHRUBS</th>
<th>CODE</th>
<th>BOTANICAL / COMMON NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EW</td>
<td>ECHINACEA PURPUREA &quot;POWWOW WILD BERRY&quot; / POWWOW WILD BERRY CONEFLOWER</td>
</tr>
<tr>
<td></td>
<td>HB</td>
<td>HIBISCUS MOSCHEUTOS 'DISCO BELL PINK' / ROSE MALLOW</td>
</tr>
<tr>
<td></td>
<td>I</td>
<td>ILEX GLABRA 'COMPACTA' / COMPACT INKBERRY</td>
</tr>
<tr>
<td></td>
<td>MP</td>
<td>MUHLENBERGIA CAPILLARIS 'PINK CLOUD' / PINK MUHLY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GROUND COVERS</th>
<th>CODE</th>
<th>BOTANICAL / COMMON NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CT</td>
<td>CYCNOON DACTYLON 'TIF 419' / BERMUDA SOD</td>
</tr>
<tr>
<td></td>
<td>JE</td>
<td>JUNCUS EFFUSUS / SOFT RUSH</td>
</tr>
<tr>
<td></td>
<td>LS2</td>
<td>LIROPE MUSCARI 'SILVERY SUNPROOF' / SILVERY SUNPROOF BLUE LYLITURF</td>
</tr>
</tbody>
</table>
RECYCLED GRANITE
FIELD

- FIELDTURF, INC.
- REVOLUTION 360
- USED:
  - MERCEDES BENZ STADIUM
  - PRINCETON
- 5 YEAR STUDY:
  - 44% FEWER CONCUSSIONS
  - 43% FEWER ACL
  - 33% FEWER SEVERE INJURIES
FIELD PADDING
• SPORTSFIELD SPECIALTIES
• BASEZONE & POLE PADDING
• USED:
  • SUNTRUST (TRUIST?) PARK
• 3” POLYURETHANE FOAM
• ¾” COMPOSITE BOARD BACKING
• “Z” CLIP ATTACHING SYSTEM FOR FENCE INSTALLATION
• DIFFICULT TO ATTACH TO A BLOCK MODULAR WALL. CIP PREFERRED
CONTAINMENT NETTING

• 33 STEEL POLE LOCATIONS
• APPROX 23 TONS OF STEEL
• 18” DIAMETER AT BASE
• 30'-95' HEIGHTS ABOVE GRADE
• 36” DIAMETER CONCRETE FOOTINGS AT 10’-12’ DEPTHS
• 36” DIAMETER SLEEVES AT WALL LOCATIONS
• #36 TWISTED KNOTTED NYLON NETTING
• 3” MESH OPENING
• STEEL ATTACHMENT CABLE
• PERFORMANCE MODELED FOR DIFFERENT SPORTS
• BASED ON 99 MPH WIND LOADS
Monday All Skills Pickup
Play Ball

In the book, "Baseball and Softball Fields: Design, Construction, Renovation and Maintenance" by Arnold A. Stein and Alan L. Kreml, 2014, the authors state that "the design and construction of baseball and softball fields requires careful attention in the selection of soil, drainage and grading." They then proceed to discuss the importance of the design process, including the construction of fields to accommodate specific needs.

Some of the authors' suggestions include:
- The field should be designed to accommodate the specific needs of the organization, including the size of the field and the number of players.
- The field should be designed to accommodate the specific needs of the community, including the size of the audience and the location of the field.
- The field should be designed to accommodate the specific needs of the players, including the size of the field and the location of the field.
- The field should be designed to accommodate the specific needs of the spectators, including the size of the audience and the location of the field.
- The field should be designed to accommodate the specific needs of the community, including the size of the audience and the location of the field.

Since sports fields play such an important role on school campuses, especially in secondary and collegiate settings, LA SM is pleased to include studies of the design and execution of three recent such projects.

The first area occupied by a middle school in Atlanta was reconstructed to include a baseball field. The city of Atlanta then expanded the reconstruction to include a softball field.

The second area occupied by a high school in Atlanta was reconstructed to include a football field. The city of Atlanta then expanded the reconstruction to include a soccer field.

The third area occupied by a high school in Atlanta was reconstructed to include a track and field. The city of Atlanta then expanded the reconstruction to include a basketball court.