PLANNING THE RIGHT AQUATIC FACILITIES FOR YOUR SCHOOL DISTRICT + COMMUNITY
INTRODUCTIONS

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AGENDA

1. AQUATICS PROGRAMS TODAY
2. PLANNING + DESIGN
3. LAMAR CISD AQUATICS MASTER PLAN
4. FACILITY MAINTENANCE + OPERATIONS
5. AQUATIC FACILITY TRENDS
In 2008, US swimmer Michael Phelps became the most successful man at a single Olympic Games by winning eight gold medals. His total medal haul of 23 golds between 2004–2016 is the most out of all sports.
GOVERNING BODIES, FACILITY STANDARDS, EVENTS
FACILITY STANDARDS

EVENTS FOR DISTRICT, REGIONAL AND STATE

Boys and girls events for district, regional and state meets shall be as follows:

- 200 Yard Medley Relay
- 200 Yard Freestyle
- 200 Yard Individual Medley
- 50 Yard Freestyle
- 1 Meter Diving
- 100 Yard Butterfly
- 100 Yard Freestyle
- 500 Yard Freestyle
- 200 Yard Freestyle Relay
- 100 Yard Backstroke
- 100 Yard Breaststroke
- 400 Yard Freestyle Relay
AQUATICS PROGRAM TODAY

USA SWIMMING

FACILITY STANDARDS

50, 100, 200, 400m/500y, 800m/1000y, 1500m/1650 freestyle
100, 200 backstroke
100, 200 butterfly
100, 200 breaststroke
200, 400 individual medley
200, 400, 800 freestyle relay
200, 400 medley relay
200, 400, 800 mixed gender freestyle relay
200, 400 mixed gender medley relay
AQUATICS PROGRAM TODAY

USA DIVING

SPRINGBOARD
✓ 1 meter
✓ 3 meter

PLATFORM
✓ 1 meter
✓ 3 meter
✓ 5 meter
✓ 7.5 meter
✓ 10 meter
## FACILITY SPECS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>NORTHSIDE NATATORIUM (secondary pool)</th>
<th>NORTHSIDE SWIM CENTER (main pool &amp; diving pool)</th>
<th>CHAMPIONSHIP FACILITY</th>
<th>IDEAL FACILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Competition Pool</td>
<td>YES</td>
<td>NA</td>
<td>50 METER (8 lanes @ 9' wide, 2m deep min.)</td>
<td>50 METER (8-10 lanes @ 2.5m wide 2m deep min.)</td>
</tr>
<tr>
<td>Secondary Competition Pool</td>
<td>YES</td>
<td>50 METER (8 lanes @ 9' wide, 2m deep min.)</td>
<td>NA</td>
<td>SAME AS COMPETITION POOL</td>
</tr>
<tr>
<td>Warm-up Pool</td>
<td>YES</td>
<td>NA</td>
<td>25 METER X 25 YD.</td>
<td>25 METER (min. 8 lanes @ 2.5m wide)</td>
</tr>
<tr>
<td>Diving Pool</td>
<td>YES</td>
<td>NA</td>
<td>Two 1-meter and two 3-meter springboards. Height of highest platform will be 10-meters. Intermediate platforms TBD.</td>
<td>Two 1-meter and two 3-meter springboards. Height of highest platform must be 10-meters. Intermediate platforms may be 5 and 7.5 meters.</td>
</tr>
<tr>
<td>Deck Size</td>
<td>YES</td>
<td>15' on sides; SECONDARY POOL</td>
<td>MAIN POOL 25' on sides</td>
<td>WARM-UP POOL 15' on sides</td>
</tr>
</tbody>
</table>

### SEATING

<table>
<thead>
<tr>
<th>SEATING</th>
<th>NORTHSIDE NATATORIUM (secondary pool)</th>
<th>NORTHSIDE SWIM CENTER (main pool &amp; diving pool)</th>
<th>CHAMPIONSHIP FACILITY</th>
<th>IDEAL FACILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectator Seating</td>
<td>POSSIBLE</td>
<td>800 SEATS: SECONDARY POOL</td>
<td>2,500 SEATS: MAIN POOL</td>
<td>3,000 SEATS: MAIN POOL</td>
</tr>
<tr>
<td>Athlete Seating</td>
<td>POSSIBLE</td>
<td>TBD</td>
<td>1,000 ATHLETES</td>
<td>1,500: ATHLETE SEATS</td>
</tr>
<tr>
<td>Media Seating</td>
<td>POSSIBLE</td>
<td>TBD</td>
<td>TBD</td>
<td>50 SEATING WITH TABLES NEAR FINISH END</td>
</tr>
<tr>
<td>VIP Seating</td>
<td>POSSIBLE</td>
<td>TBD</td>
<td>TBD</td>
<td>50 VIP SEATING ALONG ONE SIDE OF MAIN POOL</td>
</tr>
</tbody>
</table>

### ADMINISTRATION

<table>
<thead>
<tr>
<th>ADMINISTRATION</th>
<th>NORTHSIDE NATATORIUM (secondary pool)</th>
<th>NORTHSIDE SWIM CENTER (main pool &amp; diving pool)</th>
<th>CHAMPIONSHIP FACILITY</th>
<th>IDEAL FACILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospitality</td>
<td>NO</td>
<td>NONE</td>
<td>NONE</td>
<td>Near pool deck to accommodate 300 at round banquet tables.</td>
</tr>
<tr>
<td>VIP suite</td>
<td>NA</td>
<td>NONE</td>
<td>NONE</td>
<td>Room overlooking main pool with bar, lounge seating, and video monitors.</td>
</tr>
<tr>
<td>General Meeting</td>
<td>POSSIBLE</td>
<td>Could utilize bleacher space with 460 seats in existing natatorium space.</td>
<td>NONE</td>
<td>Nearby room to accommodate 460 in theatre seating.</td>
</tr>
<tr>
<td>Officials</td>
<td>POSSIBLE</td>
<td>NA</td>
<td>Temporary bleachers at north deck to accommodate 60.</td>
<td>Nearby room to accommodate 60 in theatre seating.</td>
</tr>
<tr>
<td>Meet Administration</td>
<td>YES</td>
<td>NONE</td>
<td>Windowed room at each end of home side with 12 desks/computers each.</td>
<td>Windowed room at finish-end of main pool with three desks/computers for meet administration.</td>
</tr>
<tr>
<td>Audio/Lighting</td>
<td>NA</td>
<td>NONE</td>
<td>NONE</td>
<td>Windowed room of turning-end of main and secondary pools with all controls for sound and lighting.</td>
</tr>
<tr>
<td>Drug Testing</td>
<td>YES</td>
<td>NA</td>
<td>Near pool deck. Single toilet space</td>
<td>Near pool deck w/ 3 desks and seating for 10, adjacent to private men’s and women’s restrooms.</td>
</tr>
<tr>
<td>Staff</td>
<td>YES</td>
<td>Nearby rooms with workspaces for 9 staff.</td>
<td>Office spaces on either side of home side.</td>
<td>Nearby room with minimum of 6 desks w/ computer connections.</td>
</tr>
<tr>
<td>Media Workroom</td>
<td>POSSIBLE</td>
<td>Workroom located near secondary pool</td>
<td>NONE</td>
<td>Near pool w/ min. workspaces for 5 w/ computer connections, phones, fax copiers, etc.</td>
</tr>
</tbody>
</table>
AQUATICS PROGRAM TODAY

PUBLIC-PRIVATE PARTNERSHIPS
AQUATICS PROGRAM TODAY

SUSTAINABILITY
ASSEMBLE THE DESIGN COMMITTEE

COMMITTEE
✓ Aquatic Director
✓ Administration
✓ Coaches
✓ Parents
✓ Students
✓ Community
✓ Principal
ESTABLISH GOALS + OBJECTIVES
PLANNING + DESIGN

MASTER PLAN VENUE/SITE
PLANNING + DESIGN

DEFINE EVENTS + PROGRAMS
VISIT DIFFERENT POOL FACILITY TYPES
DESIGNATE FACILITY MANAGER
# PROGRAM OF SPACES

<table>
<thead>
<tr>
<th>Space/Function</th>
<th>Quantity</th>
<th>Net Unit Area - 1</th>
<th>Total Net Area - 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pool Deck</td>
<td>1</td>
<td>4,450</td>
<td></td>
</tr>
<tr>
<td>Pool</td>
<td>1</td>
<td>5,625</td>
<td></td>
</tr>
<tr>
<td>Pool Equipment Room</td>
<td>1</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>Girl's Locker Room</td>
<td>1</td>
<td>780</td>
<td></td>
</tr>
<tr>
<td>Boy’s Locker Rooms</td>
<td>1</td>
<td>780</td>
<td></td>
</tr>
<tr>
<td>Coach’s Office</td>
<td>1</td>
<td>220</td>
<td></td>
</tr>
<tr>
<td>Coach’s Restroom / Dressing</td>
<td>1</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>MDF</td>
<td>1</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Pool Storage</td>
<td>1</td>
<td>260</td>
<td></td>
</tr>
<tr>
<td>Custodial Closet</td>
<td>1</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Men’s RR / 4th Grade Program</td>
<td>1</td>
<td>305</td>
<td></td>
</tr>
<tr>
<td>Women's RR / 4th Grade Program</td>
<td>1</td>
<td>360</td>
<td></td>
</tr>
<tr>
<td><strong>Total Net Program</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Adjusted Gross Square Footage (Building)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mechanical Mezzanine</strong></td>
<td>1</td>
<td>2,800</td>
<td></td>
</tr>
</tbody>
</table>

![New Natatorium Slide with Program Details](image)
POOL FACILITY TYPES

OPEN AIR POOL

PASSIVE AIR POOL

CLIMATE CONTROLLED POOL

PROS + CONS
POOL CONSTRUCTION TYPES

TRADITIONAL CONCRETE POOL

STAINLESS STEEL PANEL POOL
POOL CATEGORIES

INSTRUCTIONAL

COMPETITION/ PRACTICE
POOL CONFIGURATIONS/DEPTHS
PLANNING + DESIGN

PLANNING CONSIDERATIONS
PLANNING + DESIGN

NATURAL + ARTIFICIAL LIGHT
PLANNING + DESIGN

TIMING SYSTEMS
Construction Practice
CONSTRUCTION PRACTICE

PROTOTYPING

[Diagram showing pool dimensions and layout]
CONSTRUCTION PRACTICE

ACOUSTICS/LIGHTING/STRUCTURE
MATERIALS + FINISHES
CONSTRUCTION PRACTICE

MECHANICAL SYSTEMS + POOL FILTRATION
Lamar CISD Aquatics Master Plan
The Beginning of the Fourth Grade Learn to Swim Program
LAMAR CISD AQUATICS MASTER PLAN

LCISD AQUATICS PROGRAMS
LAMAR CISD AQUATICS MASTER PLAN

PROTOTYPETE FACILITIES
VENDOR/MAINTENANCE ITEMS
COMMUNITY/CLUB USAGE
LAMAR CISD AQUATICS MASTER PLAN

SPECIALIZED STAFF
Aquatic Facility Trends
AQUATIC FACILITY TRENDS

TRENDS

ADAPTIVE AQUATICS

DRYLAND TRAINING

INTERACTIVE COACHING

SPORTS MEDICINE AND NUTRITION

BRANDING & WAYFINDING

ACCESS CONTROL

REHABILITATION

COMMUNITY LOUNGE
AQUATIC FACILITY TRENDS

TRENDS

- AIR FLOW DISTRIBUTION
- POOL FILTRATION AND CIRCULATION
- ADAPTABILITY AND FLEXIBILITY
- HIGH PERFORMANCE HVAC SYSTEM AND MATERIALS

- POOL AND AIR TEMPERATURE
- DIVING
- SCOREBOARDS/TIMING AND ACOUSTICS
- NATURAL & ARTIFICIAL LIGHTING
THANK YOU