

**MEETING MINUTES**  
**AQUATICS FACILITIES BUILDING COMMITTEE**

Zoom Meeting

Wednesday, February 9, 2022

**Call to Order**

The meeting was called to order by Chairman Jason Marsh at 7:00 pm.

**Attendance:**

<u>Present</u>	<u>Absent</u>
Jason Marsh	Mary Markham
Mark Block	
Jay Orenstein	
April Lang	
Dennis Mucci	
Chris DeCruze	
Brian Moore	

**Also Present:**

Dmitri Paris, Superintendent of Parks & Recreation  
George Estrada, Director, Public Works  
Bill Chin, Director-IT  
Kathy McGannon, Chief Administrative Officer  
Ashley Guadiano

**Pledge of Allegiance**

The meeting started as a joint meeting with the Community Facilities Building Committee and a presentation by Michael Fortuna of TLP Architecture of his report concerning the current state of Hillcrest Pool and the short and long-term options for that facility.

**Joint Meeting: Presentation and Report from Michael P. Fortuna, AIA of TLB Architecture, LLC regarding Hillcrest Pool** (see attached)

- Went over all the deficiencies of the pool and mechanical system
- Reviewed 3 different approaches, Option 1 existing pool programs, Option 2 expanded with diving board, Option 3 bare minimum

Once the joint portion of the meeting was over, the two committees separated and the Aquatics Committee continued our meeting without the other committee.

**Approval of January 12, 2022 Meeting Minutes**

Moved by Mr. Block, seconded by Ms. Lang to approve the January 12, 2022 meeting minutes.  
**Vote: 7-0-0**

## **Public Comment**

Jason and Laura Citarella, 50 Westfield Dr. – Parents of kids who are swimmers expressed that they just want a functioning pool in town. They favor repairing Hillcrest so kids have a place to swim.

## **Discussion about Hillcrest Pool and Proposed Project**

Mr. Paris stated that Mr. Fortuna provided a comprehensive review to see where we are in order to make prudent financial decisions. Mr. Paris's concern is, if we select option 3, what are we getting for spending millions of dollars. In the past, the pool has gone through patches and repairs incurring substantial expense. We don't want to make a mistake just to get into the pool repaired quickly. Need to make this decision last and we should bring everything to the table.

Mr. DeCruze stated that he doesn't think that option 3 is a viable long-term plan. Need to consider long-term solutions instead of stop-gap patches/repairs.

Ms. Lang asked for an opinion of building a temporary instant structure around the outdoor pools, while we create a long-term plan. Mr. Paris sees many obstacles with this: they are seasonal pools, so they are not heated, no locker rooms and no insulated bathrooms. A temporary structure just gets you shelter. Mr. Marsh asked what was reaction from school/BOE perspective. Mr. Paris had no input specifically of BOE opinion. Stated that Mike King is working to find alternatives to keep swim program viable.

Mr. Orenstein asked if it is safe to presume that Hillcrest pool would be off limits during school hours (7-3 pm). Mr. Marsh said that the BOE expressed reticence to replacing pool on school campus, not sure if BOE is willing to grant this, it has to be thoroughly reviewed. We have to assume that there will be limitations on public's use of pool during school hours.

Mr. Block stated that we need to have a conversation with BOE regarding town's expectations for use of land at the school. Wants more detailed opinion on the statute. Mr. Block wants to look at other pool facilities that are attached to schools.

Ms. Lang stated that the locker rooms at Hillcrest pool are used by kids all day long. She prefers design from 2 years ago – better for young children and better access to walk-in/zero-entry pool.

Mr. Marsh stated that in order to potentially generate revenue, the pool would need to be operational throughout the day. With the traffic flow in/out of campus during school day, Mr. Marsh said that the BOE will have issues with safety and logistics.

Mr. Block suggested a separate driveway could be constructed to go straight to pool. Has fiscal concerns – how much will Town bond and the best way to do this. Mr. Block asked about the survey that was discussed two years ago--it never went out.

Mr. Marsh said the next step is to have representatives from BOE and town legal counsel meet regarding issues of feasibility of community use of pool facility during school hours. Will put this on next month's agenda.

## **New Business**

Mr. Marsh asked for the committee's thoughts on whether we want to consider possibility of a joint project to do a comprehensive community center/aquatics facility?

Mr. Moore said it would be good to have options available and pursue finding out what this would entail. Interested in investigating.

Mr. Orenstein asked if we did go with a community center, would there be limitations for it to be a competitive facility. Mr. Marsh thinks economies of scale would give us more efficiencies. So question is stand alone or combined facility.

Mr. DeCruze said we should consider how significant capital project would affect ability to do other things in town. Mr. Marsh said any project would go to referendum.

Ms. Lang is in favor of more expanded community center concept.

Mr. Block said that in regard to the Hardy Lane location, he would want to see a study done on traffic impact on Church Hill Road – concerned with traffic especially on weekends. Mr. Block asked will community support a massive project and if the answer is no, will there still be an appetite to pick a smaller project. Open to hearing all options.

Next meeting will be held on March 2 with placeholder for March 23.

### **Adjournment**

Moved by Mr. Block, seconded by Mr. Orenstein to adjourn the meeting at 9:05 pm.

**Vote: 7-0-0**

Submitted by

Marisa Petriello



# M E E T I N G R E P O R T

Date: January 20, 2022  
Project Name: Hillcrest School Natatorium and Swimming Pool  
TLBA Project No. 2021-012

Meeting: Presentation to Town-01  
Re: Review of Findings and Conceptual Design Options

## Attending:

Vicki Tesoro	Town of Trumbull, First Selectman
Dmitri Paris	Town of Trumbull, Superintendent of Parks and Recreation
George Estrada	Town of Trumbull, Public Works Director
Kathleen McGannon	Town of Trumbull, Chief Administrative Officer
Dan Martin	Town of Trumbull, Assistant Finance Director
Bill Strickland	Trumbull High School, Swimming and Diving Coach
Mike King	Trumbull High School, Athletic Director
Tom Racicot	Trumbull Pisces Swimming, President
Kal Zerfu	TLB Architecture, LLC
Mike Fortuna	TLB Architecture, LLC

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**Project Record:** This report constitutes our understanding of topics discussed and/or conclusions reached at this meeting. If exceptions are taken to the content of this report, please notify this office immediately, as this will become a part of the project record.

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1. TLBA reviewed the work completed to date and presented conceptual options for the rehabilitation of the Natatorium and Swimming Pool at Hillcrest School in Trumbull, CT. The information presented at this meeting was a summary of findings and concepts, along with anticipated costs. A complete report will follow, providing additional detail. The materials presented are attached to this report.
2. There was a brief discussion of the Work completed to date, including the original review of the structural deck above the filter room, completed in September 2021. Other reviews, completed in November 2021 – January, 2022, included pool systems, equipment and piping, pool shell structure, tile and gutter, pool decks, natatorium building envelope and mechanical, electrical and plumbing systems.
3. Leak Test: It was noted that a leak test was performed and the water level dropped approximately 7-inches over a 3-day period. Leaking slowed after this time, indicating a failure of the gutter system. This is consistent with rusting observed at the tile deck, and failure of sealant joints at the pool walls and the deck. There are signs of settlement in the deck in locations, indicating loss of fill below the deck, likely due to leaks.
4. Suspended Structural Deck over Filter Room: The concrete and tile deck over the filter room is in failure due to persistent leaks at the supply/drain converter. This area of deck, as well as portions of the supporting walls are in need of complete replacement.
5. Recirculation, Filtration and Chemical Control Systems: Existing systems are functional and well maintained, but are less than ideal for a pool of this size and type. The system includes dual recirculation pumps drawing from a balance tank. Pool filters are made up of five small diameter high-rate sand filters, manifolded together. Chemical control includes liquid acid and CO<sub>2</sub>, controlled by an automatic chemical controller. The use of five small sand filters is less

**TLBA**

TLB Architecture, LLC . 92 West Main Street . Chester, CT 06412 . 860.526.9448 . 860.526.9020 Fax . [www.tlbarchitecture.com](http://www.tlbarchitecture.com)

# M E E T I N G R E P O R T

efficient and more susceptible to failure than a properly sized commercial pool filter. The decision to use the manifolded filters is a result of limited access to the filter room, which include a small areaway from the exterior and hatch from the interior. In a renovation scenario, pool systems can be improved by use of newer technology, including UV sanitization to improve pool water chemistry and indoor air-quality.

6. Camera Inspection of Piping: Camera inspection of main drains at the bottom of the pool indicated they are clean and in good condition. Deck drain piping is significantly calcified with a reduction in open area to less than half the original diameter. The converter box noted in Item 4 was inspected and it is in complete failure.
7. Structural Evaluation of Pool Shell: Concrete cores were extracted from the pool walls, pool floor and pool decks. Generally, concrete strength was acceptable for continued use. There were localized concerns at the shallow end wall and the deep end floor which may warrant further evaluation if the pool is renovated.

It is unknown what the original concrete design strength was, but pool deck results ranged from 4,470 psi to 6,860 psi. The lowest strength is at the elevated deck which was determined to be in failure. The highest strength was at the north side, where less deck settlement was observed. At the south deck there was more deck settlement observed and the concrete strength was 75% of the north side.

Chloride testing of the pool shell revealed some chloride penetration into the concrete, with highest concentrations at the pool floor. Levels detected are generally within acceptable limits, and not unusual given the age of the tile grout.

8. HVAC System: The HVAC system includes two air-handling/dehumidification units with duct-mounted gas heaters. The units supply about 6,500 cfm to the space, of which 3,250 cfm is outside air. While functioning, the units are undersized, and distribution is poor. There are many factors impacting the selection of HVAC systems for natatoriums, but we would anticipate likely 3-5 times the current capacity is required.
9. Lighting and Electrical: Much of the electrical equipment in the Filter Room is heavily corroded and requires replacement. Lighting throughout the natatorium is relatively new, but measured light levels were well below the 100 fc recommended at the water surface by National Federation of State High School Associations (NFHS) and US Swimming and Diving. Light levels were measured at approximately 40 fc, during the day with limited contribution of natural daylight.

10. Building Layout Issues:

- a. The main entrances to the pool require swimmers, not coming from inside the school to access the locker rooms from the pool deck, in street shoes and prior to showering. This is not an acceptable route into the locker rooms.
- b. The Boy's Locker Room enters the pool adjacent to the deep end, which is a safety concern. Access from the Boy's Locker Room is across a public corridor, shared by the Gym, which puts swimmers in an unclean environment after showering.
- c. Many spaces have handicapped accessibility issues, included HCA clearances, hardware and signage.
- d. Office is undersized and doesn't provide adequate space for coaches, lifeguards and FirstAid. The room is also not HCA.

# M E E T I N G R E P O R T

11. Diving Requirements: The diving board at the pool has been removed due to inadequate geometry of the pool and building. The pool is too shallow and the slope in front of the board is non-compliant as well. The overhead clearance to the underside of the roof structure is too low to provide adequate overhead clearance. There is no cost-effective approach to making a Code-compliant diving facility, within the footprint of the existing building. As such, any renovation scheme which includes a diving will need to expand beyond the footprint of the existing building, where more overhead clearance can be provided.

12. Building Envelope: The existing natatorium shares a wall with the Gym to the north and the School to the east. The west and south walls are exterior walls. The basic building envelope assemblies include concrete columns supporting a thin-shell concrete, barrel vault roof. Walls are concrete masonry. The exterior walls have a brick veneer.

The concrete roof has a troweled or spray-applied acoustical plaster ceiling. The roofing appears to be a hot-mopped asphalt roofing, which appears near the end of its useful life. There appears to be no insulation in the roof assembly and there is likely no vapor control layer.

Walls appear to have minimal, if any insulation and there is no evidence to suggest a functioning cavity wall assembly for management of water and moisture.

Any significant renovation will require the envelope to be upgraded to comply with current Building Codes for seismic restraint, live loads and energy efficiency. This type of assembly will require significant work to make it compliant.

13. Conceptual Design Options: Two options were presented that represent a range of possibilities. The minimum scope of work to make a fully compliant facility which accommodates a 6-lane, 25-yard swimming pool with no diving as presented is Option 1. Option 2 represents an expanded pool to accommodate diving, as well as expanded program offering, including additional lanes. It was noted that within this option, pool configurations can include a lap pool with diving, combined with a separate warm water pool, a 25-yard stretch pool, or other combinations depending on pool program needs.

Option 1 has an estimated construction cost of \$6M with Project costs of \$7.6M. Option 2 has an estimated construction cost of \$13.5M with Project Cost of \$17M. These were described as Rough Order of Magnitude Costs, meaning they may vary +/-20% depending on a number of factors.

It was also noted that these estimates consider the relatively difficult working conditions within an occupied school and the need to maintain bus, student pick-up and pedestrian safety during construction. It anticipates a high level of finish for durability and aesthetics, typical of what may be planned in current school renovation projects. Pool structures are estimated as Myrtha Pool Systems. It was estimated that Design, Bid and Construction of either scenario is likely about a 2 to 2 ½ year process.

14. There was discussion regarding whether the existing facility can be “repaired” and brought back into operation in its current configuration. At a minimum, this would require that the structural deficiencies be addressed, as well as the failing gutter system and decks. This approach would not address the myriad other issues present in the facility and would require input from the local Building Official, Fire Marshal, State and Local Health Departments and BOE to determine the minimal scope of work that would be acceptable to all Authorities Having Jurisdiction. The cost and duration of this approach would require further discussion and definition and is not a long-term solution.

T:\2021-012\_Hillcrest School PoolTrumbull\SD\Meetings\Pool Committee  
Meeting\_2022-01-20\Meeting Report\_01 2022-01-20.docx

c: Attendees, file

Principal  
Michael P. Fortuna, AIA  
TLB Architecture, LLC  
Respectfully Submitted,

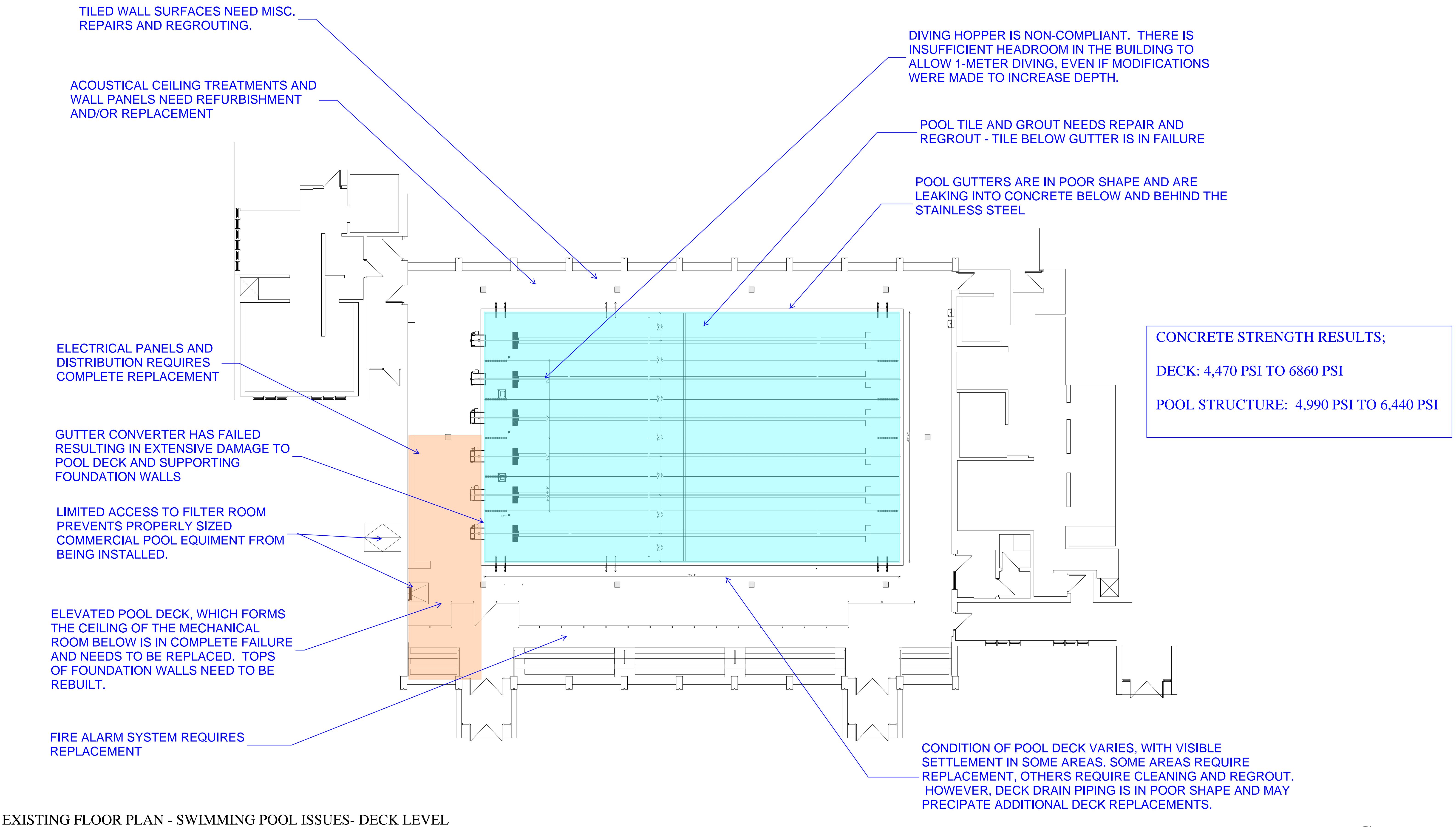
2. Manufacturer's information on Sprung Instant Structures, Pool Facilities. (Note: Information provided by Manufacturer and not vetted by TLB)

1. 01/20/22 Meeting Exhibits, 7-Pages, dated 01/18/22.

#### ATTACHMENTS:

16. TLB will complete the report based on information already obtained. No additional field work will be completed at this time, until the Town decides otherwise, including additional invasive structural evaluation, hazardous materials testing or conceptual planning.

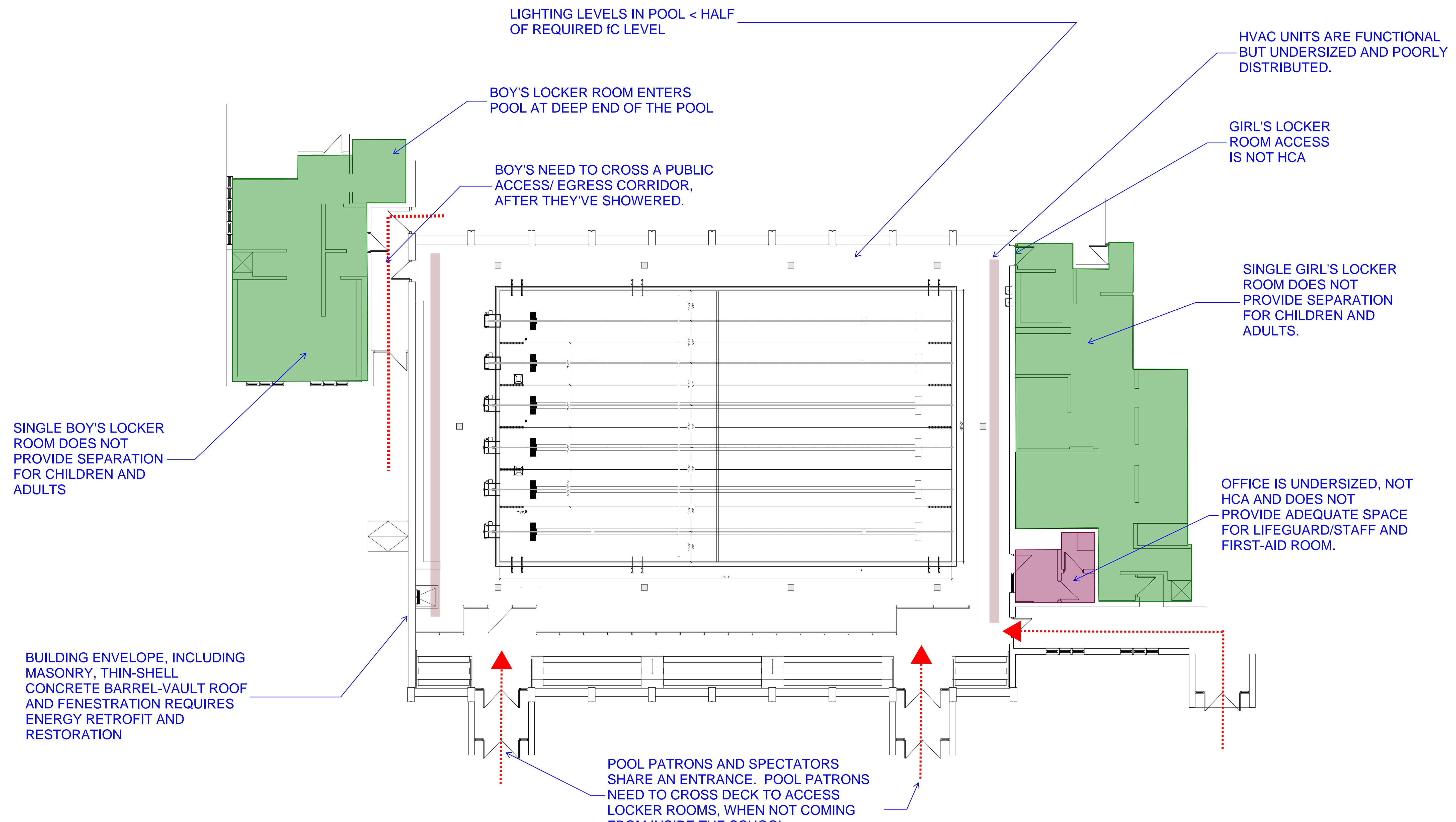
15. The Architect noted that one option that may be worth consideration is to install a "Sprung Instant Structure" over Tasha Pool, essentially turning it into a temporary indoor pool. This approach would require a fair amount of work, but may be quicker than other alternatives, and give the Town time to plan the long-term solution. Attached to this report is some information on the Sprung Instant Structure for review. The Architect noted that this concept was not studied and was offered off the cuff at this meeting, without the benefit of analysis.



## HILLCREST SCHOOL POOL

DATE: 01/18/22

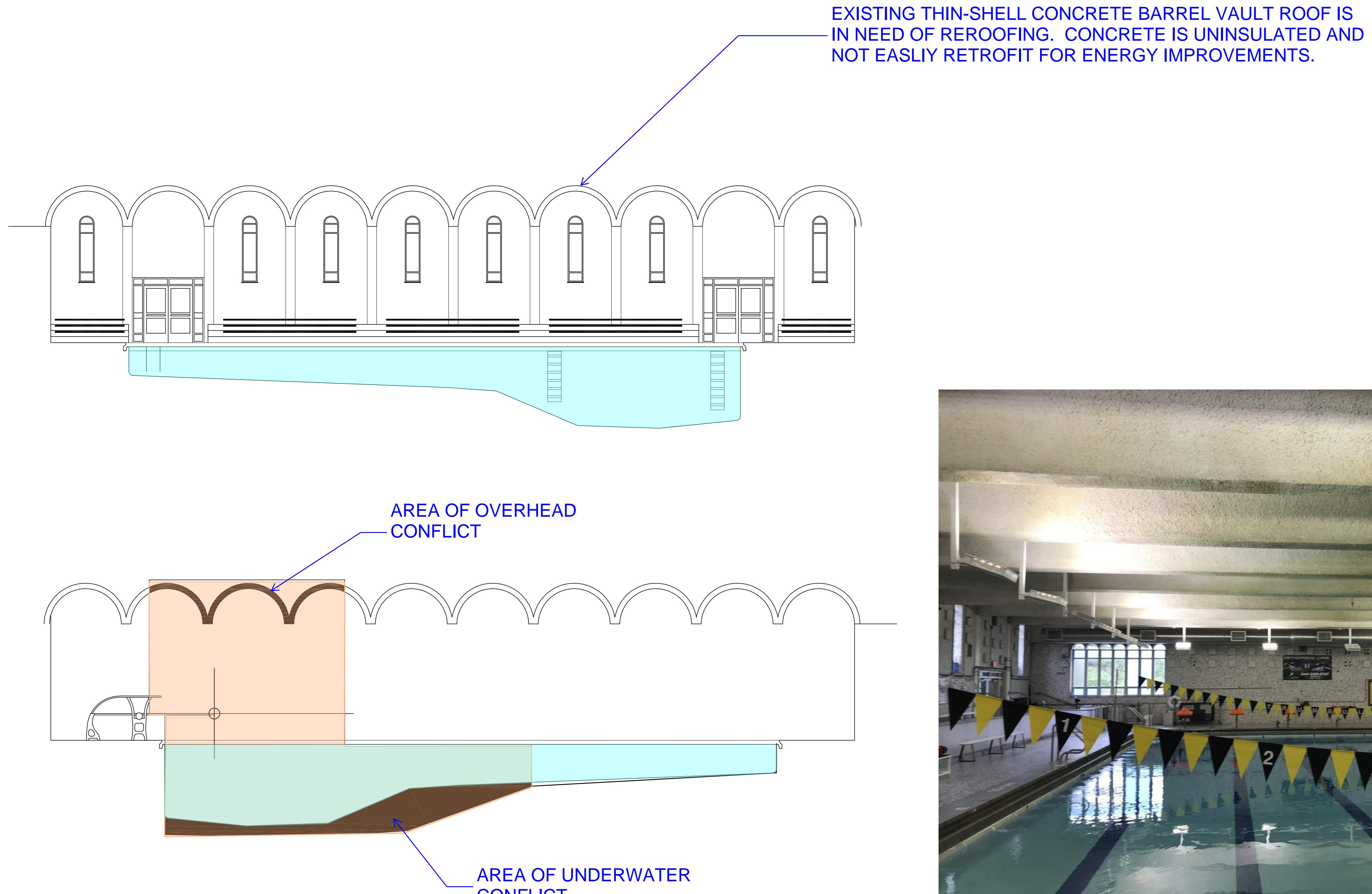
TLBA PROJECT NO. 2021.012



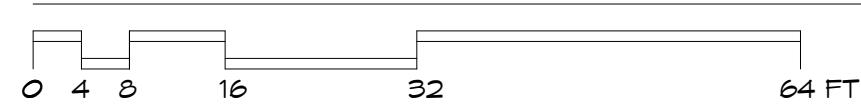
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## HILLCREST SCHOOL POOL

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#### EXISTING BUILDING SECTIONS AND DIVING DEFICIENCIES



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## HILLCREST SCHOOL POOL

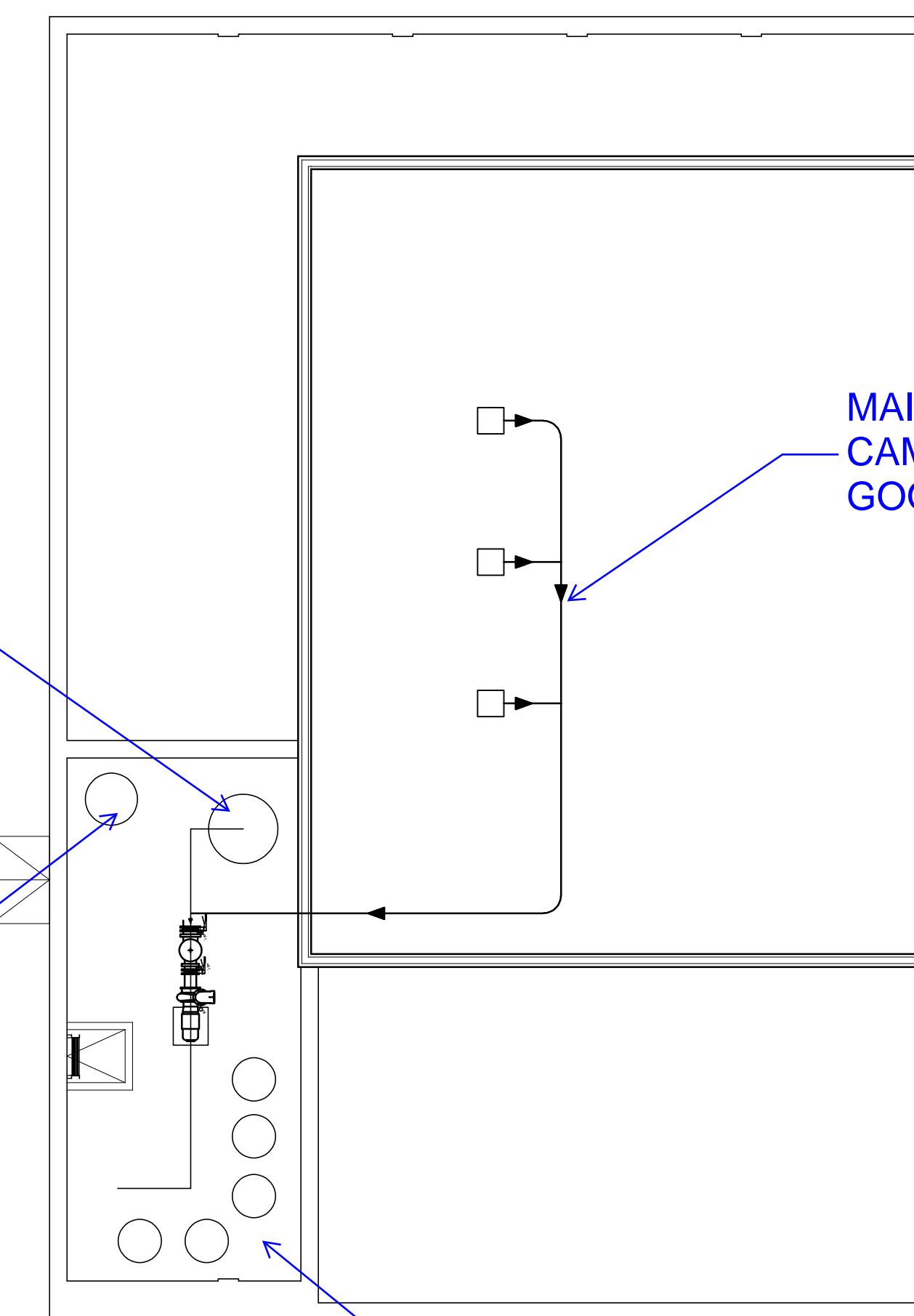
TLB PROJECT NO. 2021.012

DATE: 01/18/22

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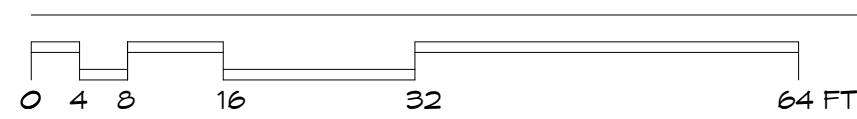
BALANCE TANK EMPLOYED AS THERE IS NO SURGE CAPACITY FOR THE GUTTER OVERFLOW. IT IS UNDERSIZED, AS ARE THE SURGE WEIRS IN THE GUTTER. AS A RESULT, SURFACE WATER WILL NOT SKIM EFFECTIVELY.



MAIN DRAIN SUMPS AND PIPING  
CAMERA INSPECTED AND ARE IN  
GOOD CONDITION.

FILTERS ARE A SET OF FIVE 36" SAND  
FILTERS AS OPPOSED TO A SINGLE,  
PROPERLY SIZED FILTER. THIS IS  
LESS THAN IDEAL BUT A RESULT OF  
LIMITED ACCESS.

EXISTING FLOOR PLAN - LOWER LEVEL PLAN - POOL SYSTEM ISSUES



## HILLCREST SCHOOL POOL

DATE: 01/18/22



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NO VIABLE OPTION EXISTS FOR PROVIDING 1-METER DIVING WITHIN THE FOOTPRINT OF THE EXISTING BUILDING, DUE TO OVERHEAD HEIGHT RESTRICTIONS.

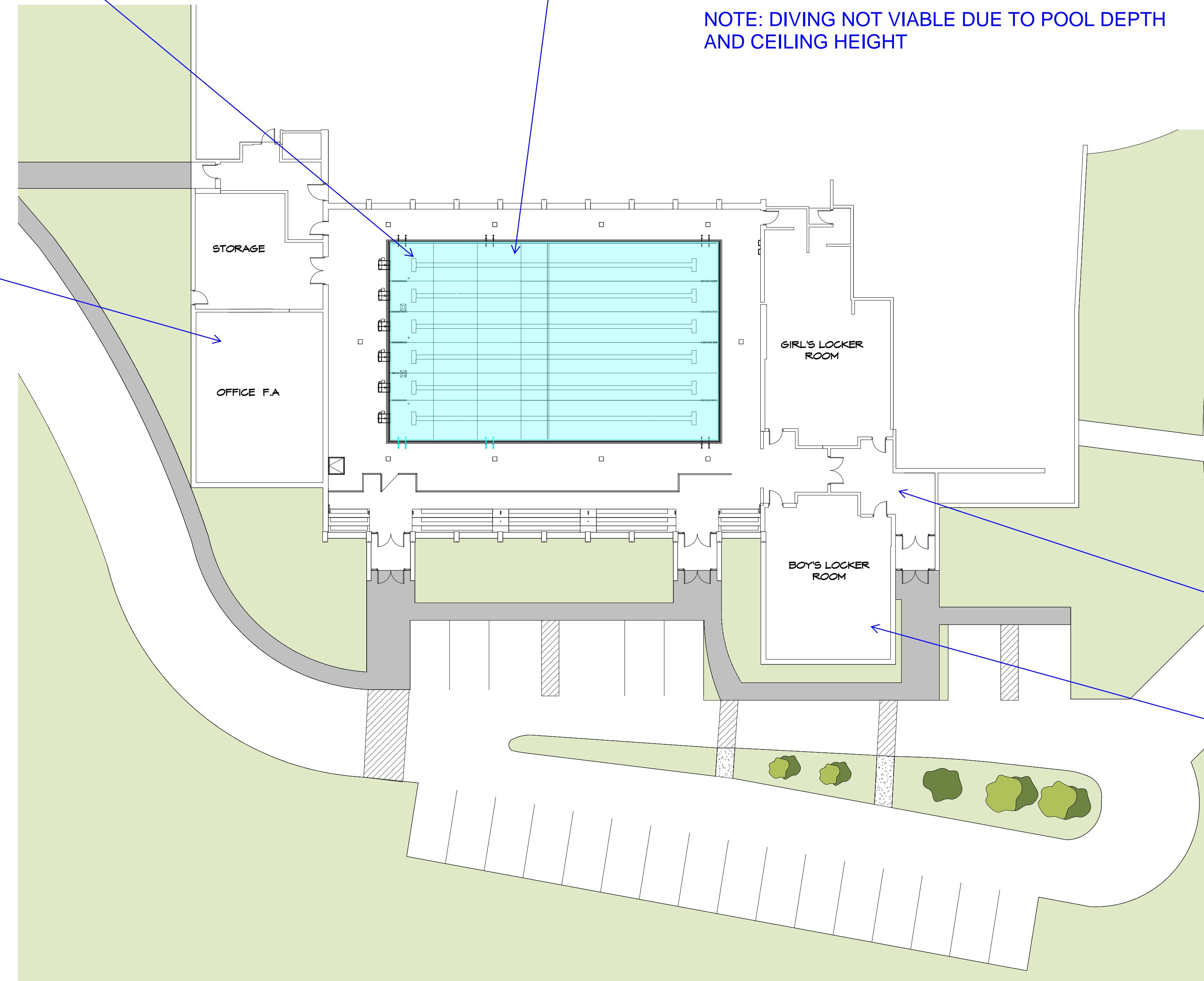
SWIMMING POOL OPTIONS INCLUDE:  
- 6 LANE 25y  
- REDUCE DEPTH TO MAX 5-FEET, OR LEAVE AT +- 10-FEET

NOTE: DIVING NOT VIABLE DUE TO POOL DEPTH AND CEILING HEIGHT

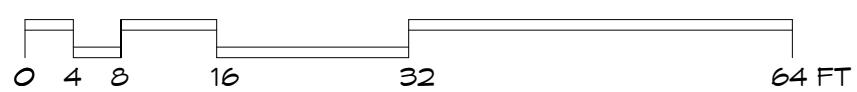
ADDITION TO ACCOMMODATE COACHES/LIFEGUARD OFFICES, FIRST-AID AND DECK STORAGE

SWIMMER ENTRANCE, SEPARATE FROM SPECTATOR ENTRANCE

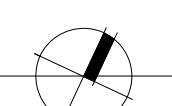
SMALL ADDITION TO LOCATE LOCKER ROOMS ON THE SHALLOW END OF POOL AND WITH IMPROVED CIRCULATION.



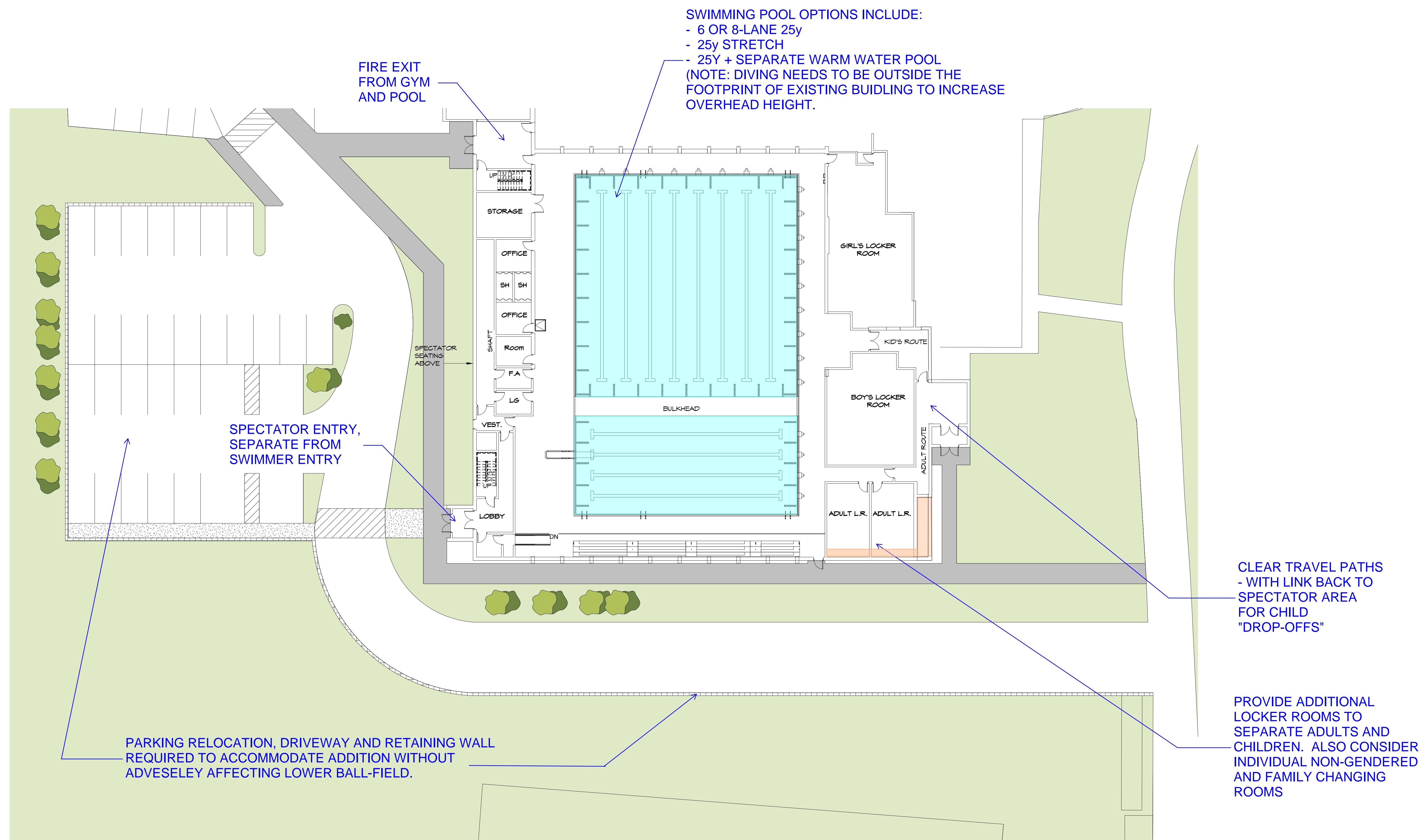
FLOOR PLAN OPTION 1 - NO DIVING - EXISTING POOL REFURBISHED



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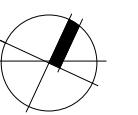
## HILLCREST SCHOOL POOL



FLOOR PLAN OPTION 2 - EXPANDED FOOTPRINT - PROGRAM DRIVEN POOL PLAN

0 4 8 16 32 64 FT

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## HILLCREST SCHOOL POOL

TLBA PROJECT NO. 2021.012

DATE: 01/18/22

TLB ARCHITECTURE 92 WEST MAIN STREET, CHESTER, CT 06412

Hillcrest Pool  
Trumbull, CT  
**OPTION 1 - EXISTING POOL PROGRAMS**  
TLBA No. 2021-012

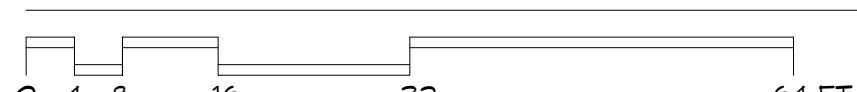
January 20, 2022

Item	Total Cost
Selective Demolition and Hazmat Abatement	\$175,000
Swimming Pool Retrofit with Myrtha System	\$600,000
Swimming Pool Systems Replacement	\$145,000
Natatorium Structural Repairs	\$120,000
Natatorium Renovation (7,300 sf at \$300/sf)	\$2,190,000
Locker Room Renovations (2560 sf at \$400/sf)	\$1,024,000
Additions (1,653 sf at \$525/sf)	\$870,000
HVAC Upgrades	\$425,000
Plumbing and Electrical Upgrades	Incl. in Reno Cost
Sitework	\$400,000
<b>Total Construction Cost - Option 1:</b>	<b>\$5,949,000</b>
Contingency (15%):	\$892,350
A/E Fees (12%):	\$820,962
<b>PROBABLE PROJECT COST:</b>	<b>\$7,662,312</b>

NOTES:

1. COSTS ARE IN 2022 DOLLARS. ASSUME 4% PER YEAR FOR ESCALATION TO MIDPOINT OF CONSTRUCTION.
2. COSTS ASSUME 8% GENERAL CONDITIONS AND 8% GENERAL CONTRACTOR O&P.
3. THERE ARE PREMIUMS TO MEET PROGRAMATIC REQUIREMENTS AND CODE REQUIREMENTS, PARTICULARLY WITH REGARD TO ENERGY CODE GIVEN THE TYPE OF CONSTRUCTION OF THE ORIGINAL BUILDING.
4. ADDITIONAL COSTS MAY BE INCURRED IF THE DESIRE IS TO HAVE FACILITY OPERATE FULLY INDEPENDENTLY OF THE SCHOOL, DURING SCHOOL HOURS.
5. ESTIMATE ASSUMES EXISTING UTILITY SERVICES TO THE BUILDING (GAS, WATER, POWER, SEWER) ARE SUFFICIENT FOR PLANNED RENOVATIONS AND EXPANSION. NEW UTILITIES ARE NOT ANTICIPATED IN THE COSTS.

ROUGH ORDER OF MAGNITUDE - ESTIMATES OF PROBABLE COST



## HILLCREST SCHOOL POOL

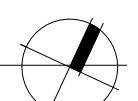
DATE: 01/18/22

Hillcrest Pool  
Trumbull, CT  
**OPTION 2 - EXPANDED NATATORIUM with DIVING**  
TLBA No. 2021-012

January 20, 2022

Item	Total Cost
Selective Demolition and Hazmat Abatement	\$300,000
Swimming Pool - 25-Yard Stretch with Bulkhead	\$1,250,000
Swimming Pool Systems Replacement	\$200,000
Natatorium Structural Repairs	\$120,000
Natatorium Renovation (7,300 sf at \$300/sf)	\$2,190,000
Locker Room Renovations (2560 sf at \$400/sf)	\$1,024,000
Locker Room Additions (3050 sf at \$525/sf)	\$1,677,500
Office area Additions w/ seating above (2,025 sf at \$500/sf)	\$1,012,500
Natatorium Addition (6,300 sf at \$625/sf)	\$3,938,000
HVAC Upgrades	\$625,000
Plumbing and Electrical Upgrades	Incl. in Additions & Reno Cost
Sitework	\$1,000,000
<b>Total Construction Cost - Option 1:</b>	<b>\$13,337,000</b>
Contingency (15%):	\$2,000,550
A/E Fees (12%):	\$1,840,506
<b>PROBABLE PROJECT COST:</b>	<b>\$17,178,056</b>

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TLBA PROJECT NO. 2021.012

TLB ARCHITECTURE 92 WEST MAIN STREET, CHESTER, CT 06412



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## Relocate-ability:

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## Oranges vs. Oranges

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FEATURE	SPRUNG STRUCTURE	PRE-ENGINEERED METAL BUILDING	CONVENTIONAL CONSTRUCTION
Engineering	Structures are engineered to meet hurricane force winds and by design shed snow	Can be designed on a case by case basis	Can be designed on a case by case basis
Delivery	Available immediately from inventory from our West Jordan, Utah manufacturing and distribution center. A Sprung structure can generally be ready to ship within three weeks from receipt of order.	6 - 8 weeks	2-4 months
Foundation Requirements	Provided appropriate soil conditions exist, foundations are not required on structures up 160' wide	Foundations required	Foundations required
Construction Time	Structures can be erected at a rate of up to 1000 sq ft per day. Sprung structures can be erected much faster than metal or conventional construction. An entire project can be completed in 1-4 months from start to finish.	9 - 12 months	Minimum 1 year
Insulation	Continuous 8-inch thick R25 insulation from ground to peak. Johns Manville formaldehyde free fiberglass insulation. (9-inch R30 on 100' to 200' wide structures)	6-inch R20 wall squeezed to R14, 6-inch R20 roof squeezed to R11	R20 wall R20 roof
Lighting Levels	The highly tensioned white interior membrane reduces number of light fixtures required	Requires more lighting fixtures	Requires more lighting fixtures
Maintenance Schedule	Aluminum substructure is virtually maintenance-free Self-cleaning exterior architectural membrane	Standing seam metal roof prone to large thermal movements and requires continuous maintenance, especially at penetrations	Regular maintenance is required
Flexibility to Relocate	Yes	No	No
Airtight Building Envelope Efficiency	Air Permeability almost 0*, which means excellent energy performance	Poor airtightness	Moderate airtightness
Energy Savings And Operating Costs	Up to 20% energy savings over pre-engineered metal buildings	Moderate energy performance	Moderate energy performance
Natural Light	A translucent section of skylight membrane provides the optimum amount of natural light. Balance of the structure includes an opaque membrane that prevents solar gain which provides climate control during summer and winter months	Not available	Costly addition
Acoustics	Excellent acoustics properties with our comprehensive insulation package and "soft wall" interior membrane	Significant additional costs associated with acoustic treatments needed to make a metal building acceptable for any application were acoustics are a concern (gymnasiums, public assembly, churches, casinos, offices etc.	Limited performance
Lifespan	60+ years	60+ years	60+ years
Guarantee	30 years on aluminum substructure, up to 20 years on architectural membrane	Limited warranty	Limited warranty
Service	Established in 1887, Sprung has over 250 employees ready to assist a moments notice	Available	Available
Proven Technology	12,000 structures erected in over 90 countries worldwide	Wide range of product	Wide range of product





# Sprung Performance Pool Enclosures

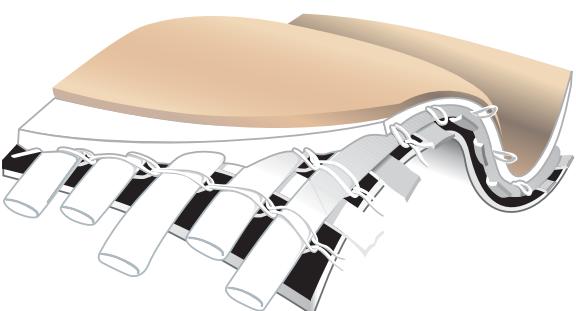
Sprung's high quality, corrosion proof, aluminum substructure, encapsulated pool insulation, and mold and mildew resistant membranes are ideally suited for swimming pool environments.



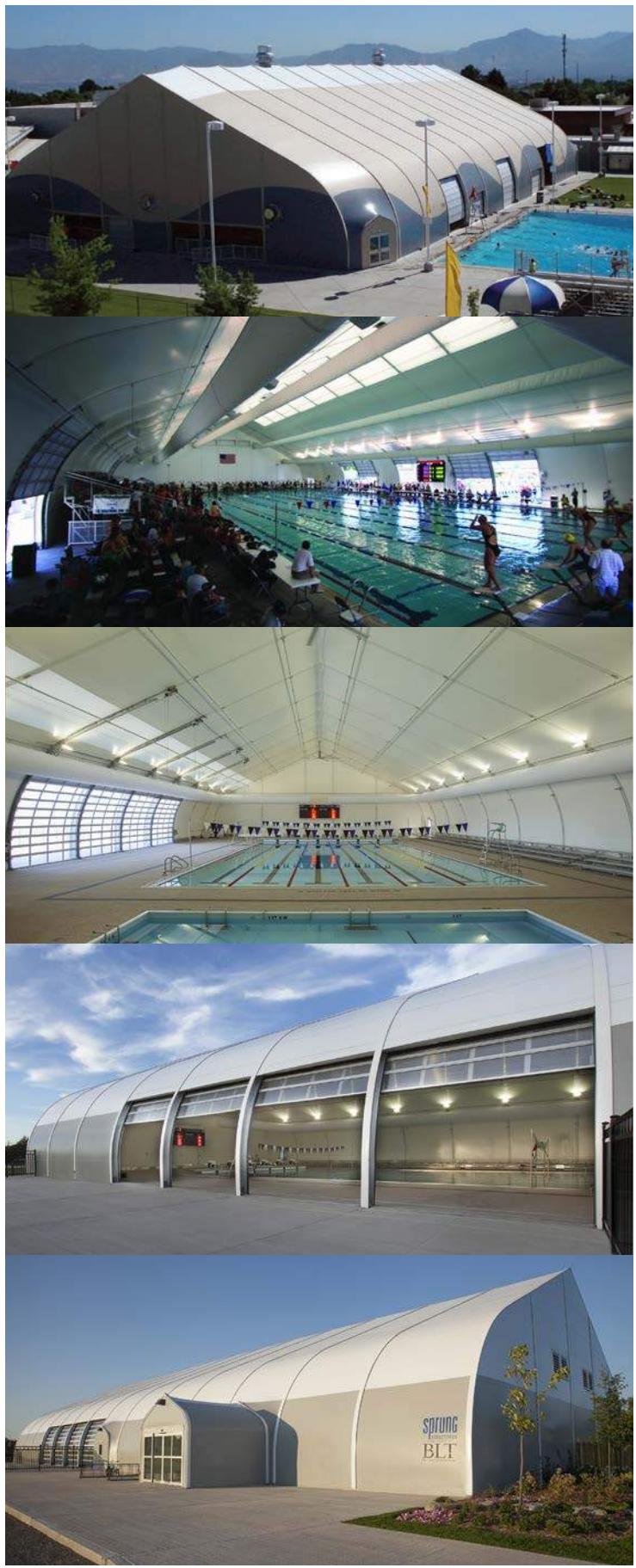
Aluminum Beam



Encapsulated Insulation



Architectural Membrane





## Sprung Performance Pool Enclosures



# Kearns Oquirrh Park Fitness Center

October 27, 2014

Sprung Instant Structures Ltd.  
Phil Sprung, President  
PO Box 62  
Maple Leaf Road  
Aldersyde, AB. Canada

Dear Phil,

In 2011, following significant exploration of options to cover our outdoor 50-meter pool, the Kearns Oquirrh Park Fitness Center chose to cover this pool with a permanent Sprung Instant Structure. Our primary objectives included:

- covering the pool for year-round use,
- making certain the air quality was comfortable for both swimmers and spectators; and
- minimizing the operating/maintenance costs associated of the facility
- providing the feel during the summer months that you are outdoors, with shading overhead.

Working closely with Sprung Instant Structures, and Van Boerum & Frank Associates, Inc., (Consulting Engineers), this pool is now operated on a year-round basis which has significantly enhanced the programs, activities and events we offer during the winter months. With the expertise which Van Boerum & Frank offers in designing mechanical systems to deal with the complexities of a pool environment, we have outstanding control of the temperature, humidity and condensation. Both swimmers and spectators have commented on how "comfortable" the facility is not only in the cold winter months, but also during the summer where we simply control the temperature by opening doors to the outside and exhausting air thru exhaust fans. As a permanent structure, we have eliminated the costs associated with erecting and taking down the structure each year in addition to storing it during the summer months. We were also committed to making this facility work well not only during the winter, but also during the summer. To accomplish this, Sprung provided several roll-up doors, some as tall as 14' that has made it possible for swimmers inside the structure to see the beautiful mountains, trees, outdoor pools, and other swimmers outside the structure. We have clearly created an atmosphere where our patrons feel like they are outdoors, with shading overhead!

We have been very happy with the outcome of the project we completed in partnership with Sprung Instant Structures and Van Boerum & Frank.

Respectfully,

Brent D. Sheets, Executives Director

1 800 528 9899

[www.sprung.com](http://www.sprung.com)

Sprung Performance Pool Enclosures

5624 South 4800 West • Kearns, Utah 84118  
801.966.5555 801.966.3670 (FAX)  
Oquirrh Recreation and Parks District





# Innovative Building Solutions

Engineered & Manufactured by Sprung Instant Structures

## Centennial Aquatic Centre

Collingwood, Ontario  
Pool Enclosure



### **Project Report:**

The outdoor pool in Collingwood Ontario was built in 1967, and in 2013, was enclosed with a new high-tech Sprung structure, allowing it to be used year-round. An additional accessible warm-water pool was also added to enhance the facility.

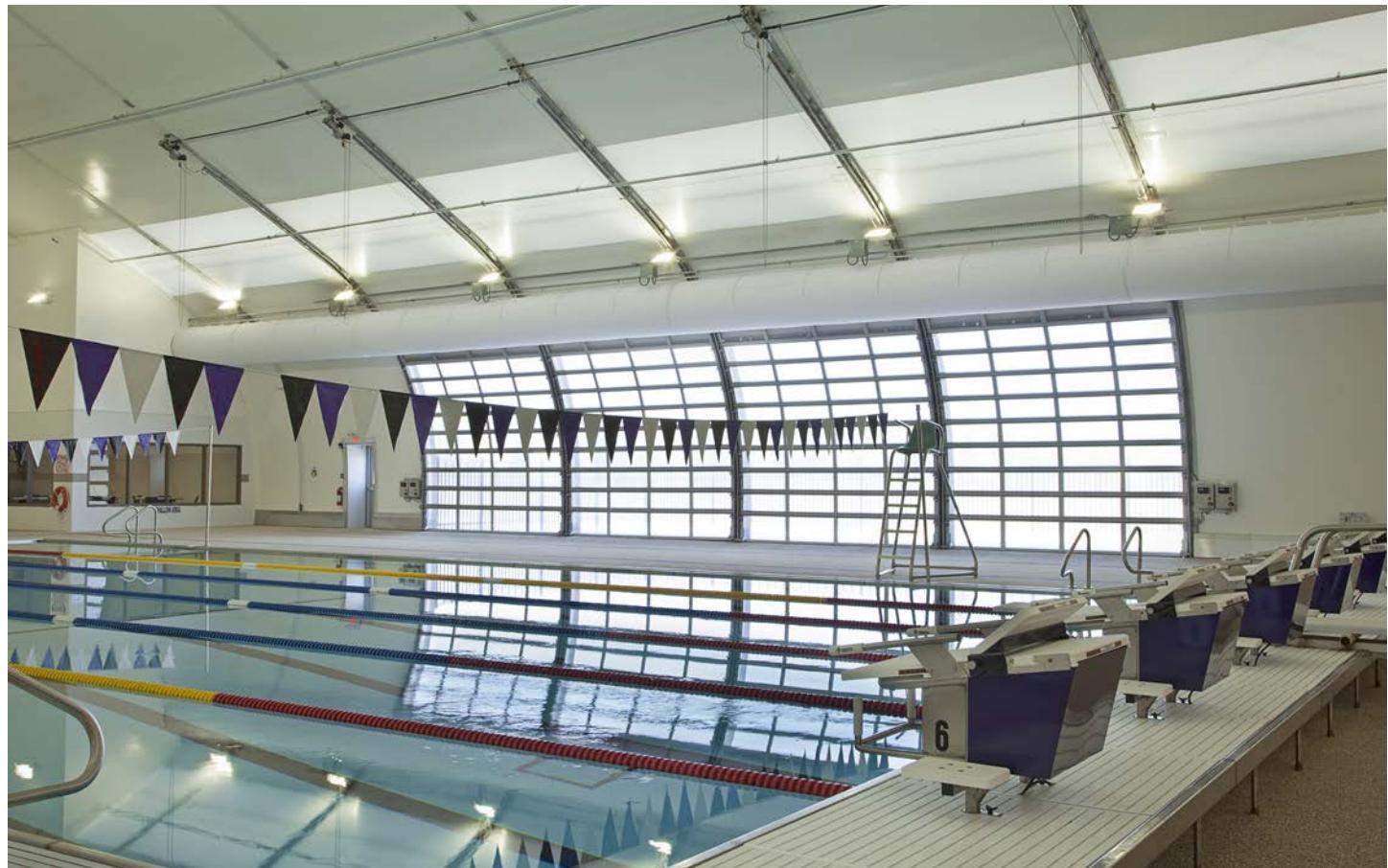
The pool is 25m long by 12m wide, with a water capacity of 540,000 litres. The Aquatic Centre is located in Heritage Park at the corner of Third and Spruce Street. (451 Third Street). It is operated by the Town of Collingwood Parks, Recreation and Culture Department.



A 90' x 210' Sprung structure was erected in a 6 month timeframe and features a specially designed pool insulation system that performs extremely well in high humidity environments, while translucent daylight panels and sunshine doors add natural daylight to enhance the swimming experience.

### Features of the new facility include:

- New accessible warm-water pool
- Viewing room that overlooks both pools
- Interior spectator seating for 250 people
- Multi-purpose room
- Family change room
- Daylighting roof panels to maximize natural light
- Four insulated doors to allow for an open environment in favourable weather
- HVAC system throughout the facility



## Mayor's Message – Centennial Aquatic Centre

The Town of Collingwood is growing, and as a municipality we need to ensure that our infrastructure and facilities meet the needs of our current and future residents, at a cost we can afford.

In our community we had an outdoor, summer-only swimming pool, however we have heard from our residents and visitors that a four-season aquatic facility was needed.



*Collingwood's new, four-season Centennial Aquatic Centre – A Sprung Structure!*

Sprung Structures were a great solution: a unique, patented, energy efficient, ready to use structure to house our outdoor pool, allowing us to turn it into a four-season aquatic facility. We were also able to include a warm-water pool to replace a previous one that had been decommissioned.

Day-lighting roof panels to maximize natural light and eight insulated doors to allow for an open environment in favourable weather ensure the building is energy efficient. The positive aspects of an outdoor pool will not be lost. Our users have told us they are thrilled at the fact that they can continue their aquatic fitness programs throughout the winter!

The Sprung Company has provided Collingwood with a showcase, state-of-the-art facility, which is the envy of many communities.



Mayor Sandra Cooper  
Town of Collingwood

SPRUNG INSTANT STRUCTURES

Meeting Report 01-01/20/2022

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