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## memo

to: Josh Morse, Commissioner of Public Buildings  
City of Newton

from: Thomas A. Scarlata, CSI, CCS, CCCA, AIA  
Principal

date: March 10, 2023

project name & number: Gath Pool Improvements  
BH+A Project No. 3457

subject: Lap Pool Depth Study

cc: BH+A File

attachments: Sketch P801 and P801.1

The depth at the shallow end of the lap pool is being reviewed internally by the City. The depth will need to be finalized before we begin preparing final construction documents of the pool; the depth of the pool does not affect other site related issues currently being developed. As requested, BH+A paired an option to increase the pool depth at the shallow end of the lap pool. The pool depth would be 4 feet at the entry side of the pool and descend to 6'-7" at the northeast corner.

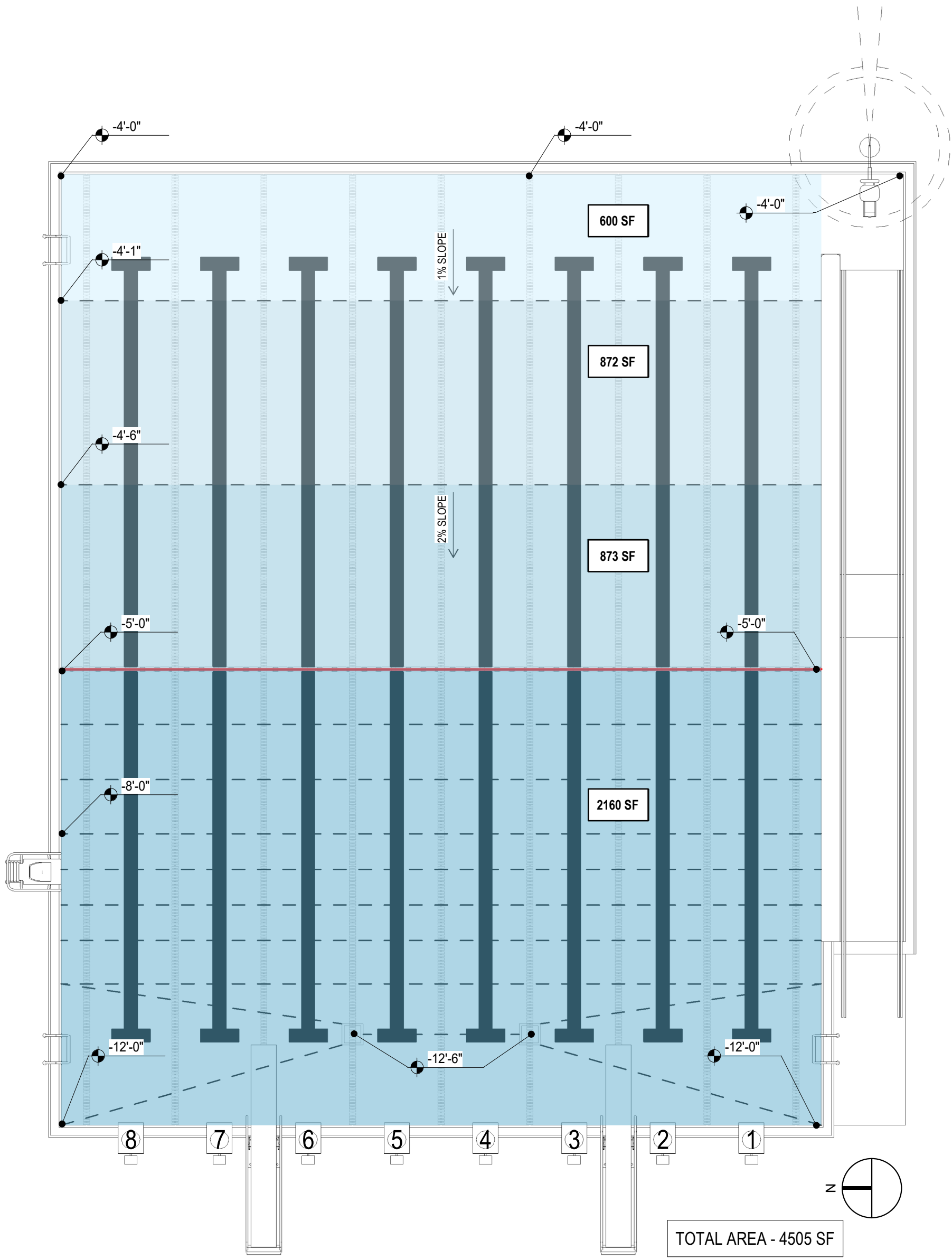
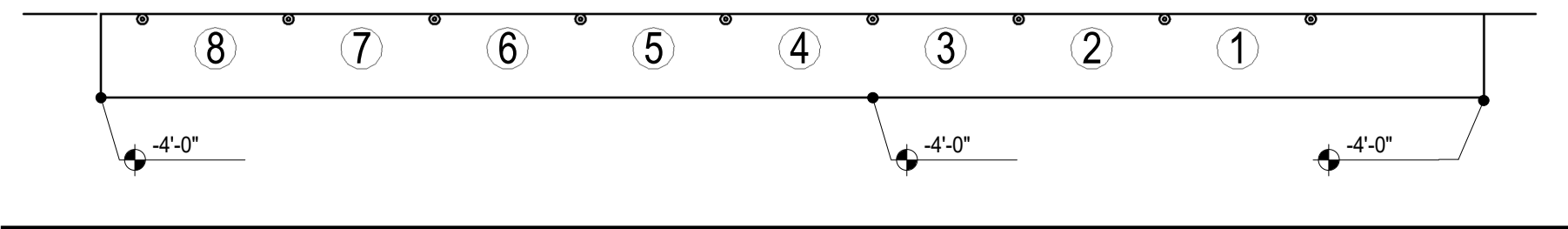
### Design Parameters:

- DPH regulations define water less than 5'-0" as "non-Swimming"; water over 5'-0" is defined as "swimming".
- The southeast corner of the pool must remain at 4 feet to accommodate the accessible lift operation.
- The 4 ft. depth requires a 51"-0" long ramp.
- Pool floors in water 5ft. or less cannot exceed a 1:12 (8%) slope.
- The 5 ft. depth in the pool is marked with a 4-inch wide contrasting tile line so the depth is visible to someone underwater. The MA DPH prefers red tiles.
- The 5ft. depth in the pool will have rope floats to demark the location of the 5ft. depth from the water.

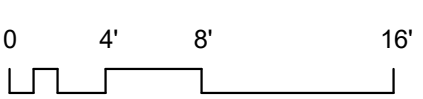
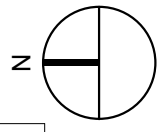
### Design Option

The attached sketches compare the current design and a slightly deeper option. The diagrams show the pool depths floor configurations and square footage at each depth.

	4'-0"	4' to 4'-6"	4'-6"-5'-0"	Over 5'-0'
Current Design	600 SF	872 SF	873 SF	2,160 SF
Option 1	313 SF	362 SF	498 SF	3,332 SF



TOTAL AREA - 4505 SF



**bh+a**  
 Bargmann Hendrie + Archetype, Inc.  
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 Boston, MA 02210  
 (617) 350 0450

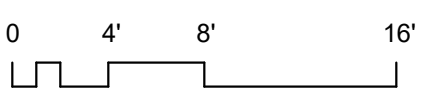
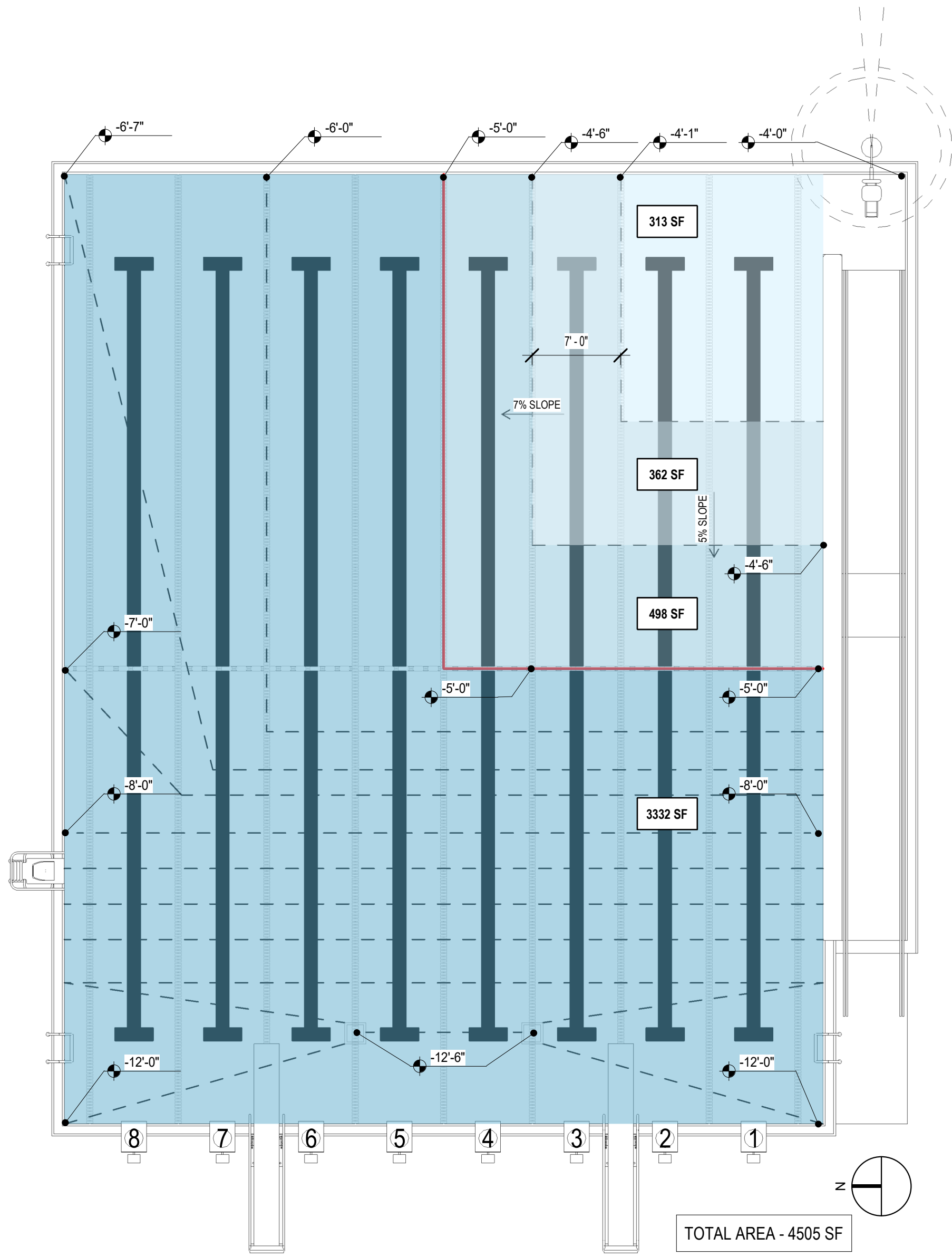
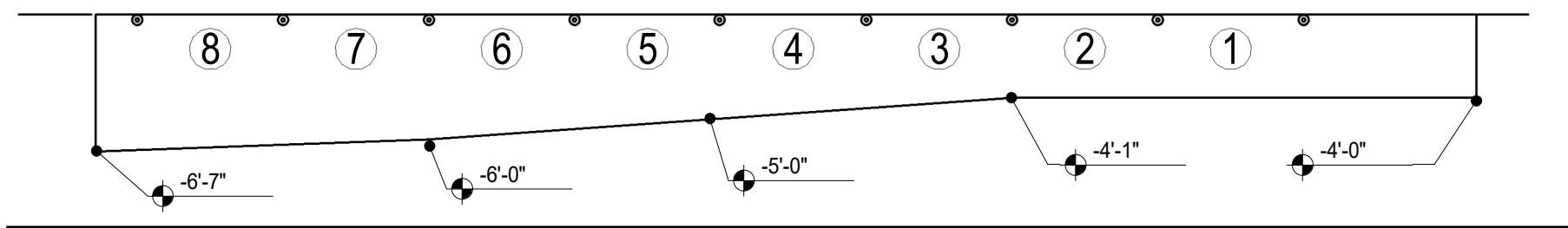
**Gath Memorial Pool  
 Improvements**  
 256 Albemarle Rd.  
 Newton, MA 02460

**LAP POOL DEPTH  
 CURRENT DESIGN**

REFERENCE:

DATE: 03/07/23  
 SCALE: 1/8" = 1'-0"  
 PROJ. NO.: 3457  
 FILE NAME:  
 revit.rvt

**P801**



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**LAP POOL DEPTH OPTION 1**

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**P801.1**