

# *Christopher M. Childs, P.E.*

*"Your Swimming Pool Engineer"*

## **Engineering Certification**

Facility Name: **Steele Creek Apartments (Swimming Pool)**

Location: 10951 Netherly, Charlotte, NC 28211

Date: 26 April 2023

**Subject: Engineering Certification for the Steele Creek Apartments Swimming Pool - Updated**

Dear Mrs. Rudisill:

Construction for the Steele Creek Apartments swimming pool in Charlotte, NC, is complete and in accordance with the approved plans and specifications.

Observation of construction was conducted on 1/27/2022 (piping), 9/12/2022 (final), and on 4/25/2023. To the best of my knowledge, this facility is constructed in accordance with the approved plans and specifications with the exceptions noted below that are captured on as-built drawings.

1. The filtration pump is a Hayward model 3207EE. The true flow of this pump measured in the field by the contractor was 82 gpm as the pump curve does not show a design flow at 65' TDH. Flow range required for this pool will be from 46 gpm (to meet minimum turnover rate) to 82 gpm (due to true flow provided for design).
2. The layout in the equipment room and the feature suction changed. The suction pipe was run as 4" line then bushes to 3" directly outside of the pool equipment room. These changes are included on the as-builts.
3. The main drain covers installed for both the filtration and feature pumps are 2008 VGBA compliant covers (teal dot) Aquastar WAV9WR101.
4. The skimmers installed by the builder were Pentair Bermuda in lieu of the Hayward skimmers specified on the approved project plans. This has been updated on the as-builts.
5. The model of the backflow preventer changed to a Watts model LF009M2QT.
6. One gate was removed, the hose bib locations shifted and the emergency telephone location moved.

To the best of my knowledge, the pool conforms to NC accessibility codes to include ANSI A 117.1 standards and the Rules Governing Public Swimming Pools (15A NCAC 18A .2500).

To the best of my knowledge, the main drain sumps and main drain grate covers used for construction of the swimming pool at this facility comply with provisions of the ISPSC, APSP-7 and APSP-16 standards for suction entrapment avoidance and the Virginia Graeme Baker Pool and Spa Safety Act.

Certification Letter - Updated  
Steele Creek Pool  
Page 2 of 2

Thank you for your assistance with this matter. Should you need any additional information to facilitate final approval for this swimming pool, please do not hesitate to contact me at (803) 729-4308 or cell: (803)556-2065.

Sincerely,

*Christopher M. Childs, P.E.*

Christopher M. Childs, P.E.



- Attachments:  
1-Updated PDSC Forms  
2-As-built pool drawings

*"Your Swimming Pool Engineer"*  
**Engineering Certification**

Facility Name:

Location:

Date:

**Subject: Engineering Certification for the -Updated**

Dear

Construction for the swimming pool in , NC, is complete and in accordance with the approved plans and specifications.

Observation of construction was conducted on (piping), (final), and on

To the best of my knowledge, this facility is constructed in accordance with the approved plans and specifications with the exceptions noted below that are captured on as-built drawings.

1. The filtration pump is a Hayward model 3207EE. The true flow of this pump measured in the field by the contractor was 82 gpm as the pump curve does not show a design flow at 65' TDH. Flow range required for this pool will be from 46 gpm (to meet minimum turnover rate) to 82 gpm (due to true flow provided for design).
2. The layout in the equipment room and the feature suction changed. The suction pipe was run as 4" line then bushes to 3" directly outside of the pool equipment room. These changes are included on the as-builts.
3. The main drain covers installed for both the filtration and feature pumps are 2008 VGBA compliant covers (teal dot) Aquastar WAV9WR101.
4. The skimmers installed by the builder were Pentair Bermuda in lieu of the Hayward skimmers specified on the approved project plans. This has been updated on the as-builts.
5. The model of the backflow preventer changed to a Watts model LF009M2QT.
6. One gate was removed, the hose bib locations shifted and the emergency telephone location moved.

To the best of my knowledge, the pool conforms to NC accessibility codes to include ANSI A 117.1 standards and the Rules Governing Public Swimming Pools (15A NCAC 18A .2500).

To the best of my knowledge, the main drain sumps and main drain grate covers used for construction of the swimming pool at this facility comply with provisions of the ISPSC, APSP-7 and APSP-16 standards for suction entrapment avoidance and the Virginia Graeme Baker Pool and Spa Safety Act.

Certification Letter - Updated

Page 2 of 2

Thank you for your assistance with this matter. Should you need any additional information to facilitate final approval for this swimming pool, please do not hesitate to contact me at

Sincerely,

Attachments:  
1-Updated PDSC Forms  
2-As-built pool drawings