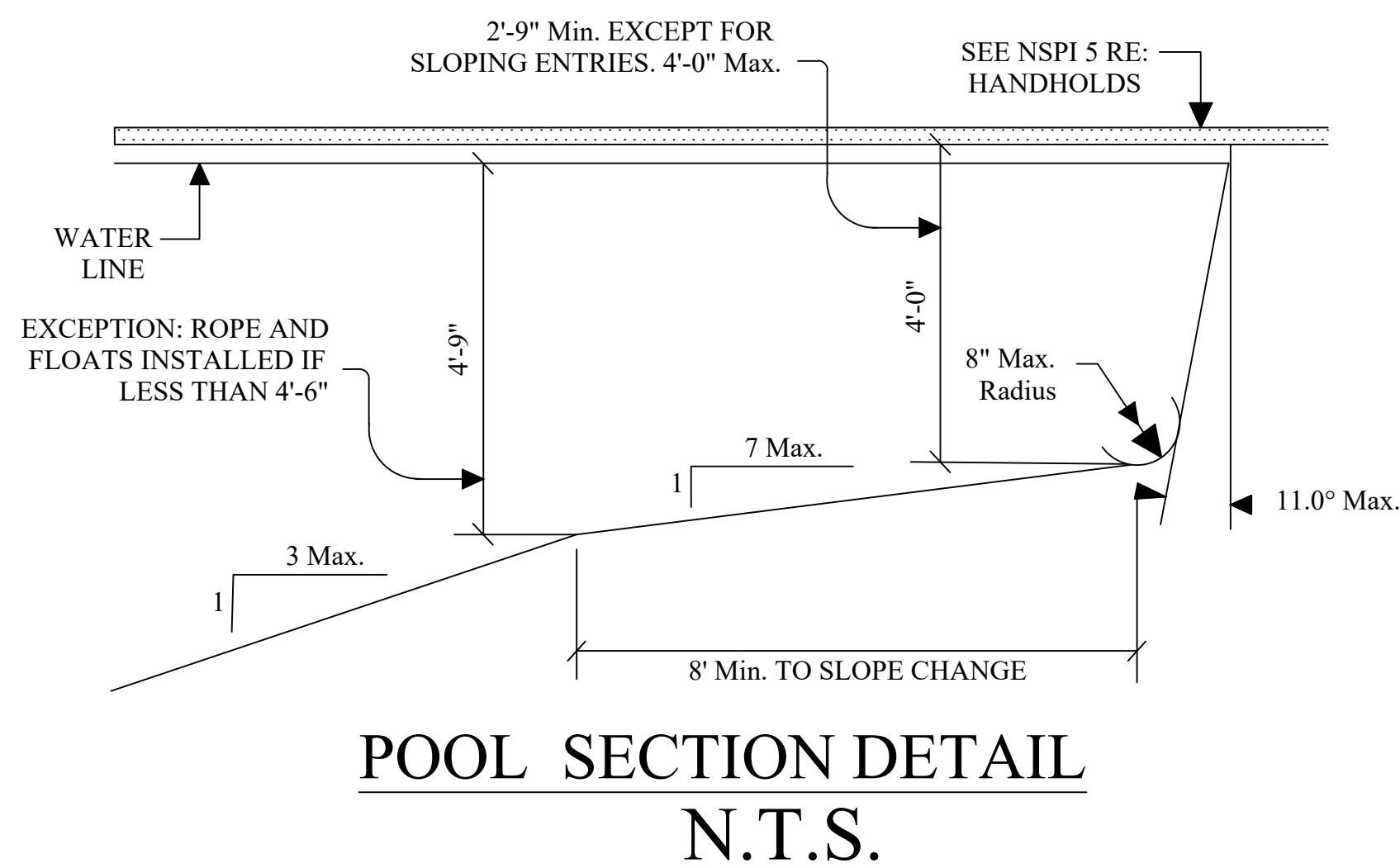




The diagram illustrates the structural components of a pool deck and its connection to a footing. On the left, a circular cross-section shows a footing with two #3 bars, labeled "8" X 8" FOOTING W/(2) #3 BARS". Above it, a layer of concrete is labeled "PAVERS OR 4" DECK 2,500 psi (Min.) CONC. W/FIBER MESH". A dimension of 8" is shown for the footing height. To the right, a horizontal section shows the "DECK FINISH PER CONTRACT (NON-SLIP)". Below this, a vertical section shows the "BEAM & 7\" BAR OPTIONAL". The beam has a height of 8" and a width of 6". The deck finish is 4" thick. The pool finish is labeled "POOL FINISH PER CONTRACT" and the exposed aggregate is labeled "FINISH 3/4\" MARCITE OR EXPOSED AGGREGATE". A note indicates "PROVIDE EXPANSION JOINT MATERIAL FOR POURED DECK CONDITION" and "COPING- CONFIRM WITH OWNER".

FOOTING

PAVERS OR 4" DECK 2,500 psi (Min.) CONC. W/FIBER MESH

DECK FINISH PER CONTRACT (NON-SLIP)

BEAM & 7" BAR OPTIONAL

POOL FINISH PER CONTRACT

FINISH 3/4" MARCITE OR EXPOSED AGGREGATE

PROVIDE EXPANSION JOINT MATERIAL FOR POURED DECK CONDITION

COPING- CONFIRM WITH OWNER

8"

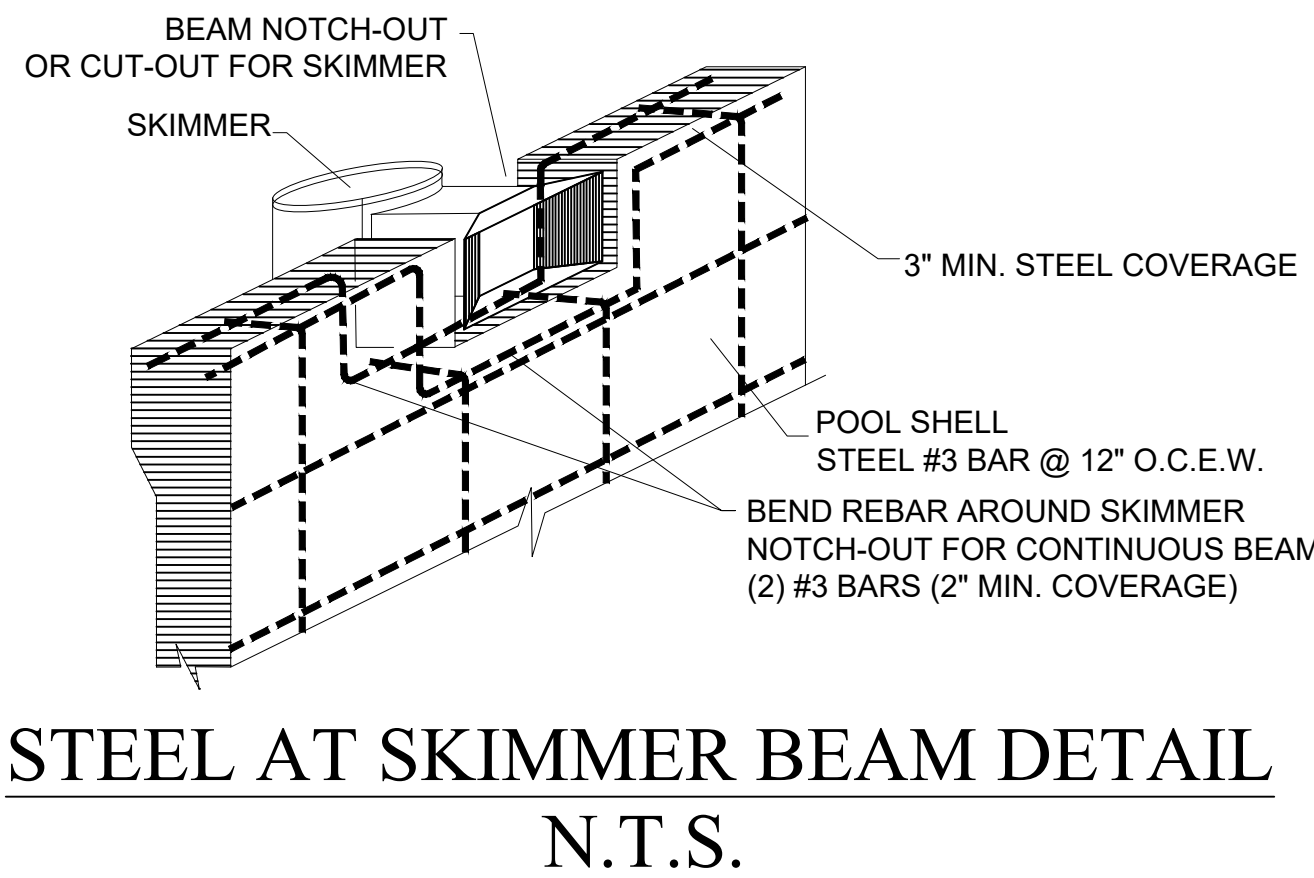
8" X 8" FOOTING W/(2) #3 BARS

OR (1) #5 BAR

6" Min. WALL & FLOOR THICKNESS. 3,000 psi (MIN.) CONC. #3 BARS ON 12" CENTERS EITHER WAY. THE ALT. INTERSECTIONS 15" MIN. OVERLAP. 2" MIN. COVERAGE ON STEEL W/CONC. TO ASTM A15, A16, ASTM A30-5

Structural subject to suitable soil conditions.

POOL/SPA, DECK, BEAM, WALL, FLOOR
N.T.S.



Pool Volume: $\frac{500}{\text{sq. ft}} \times \frac{4}{\text{ave depth}} \times 7.481 \text{ gal/cf} = \frac{15,000}{\text{gallons}}$
 Turnover Time in Hours: $\frac{6}{\text{hours}} \times 60 \text{ min/hr} = \frac{360}{\text{minutes}}$
 Flow Rate: $\frac{15,000}{\text{gallons}} \div \frac{360}{\text{minutes}} = \frac{42}{\text{gpm}}$

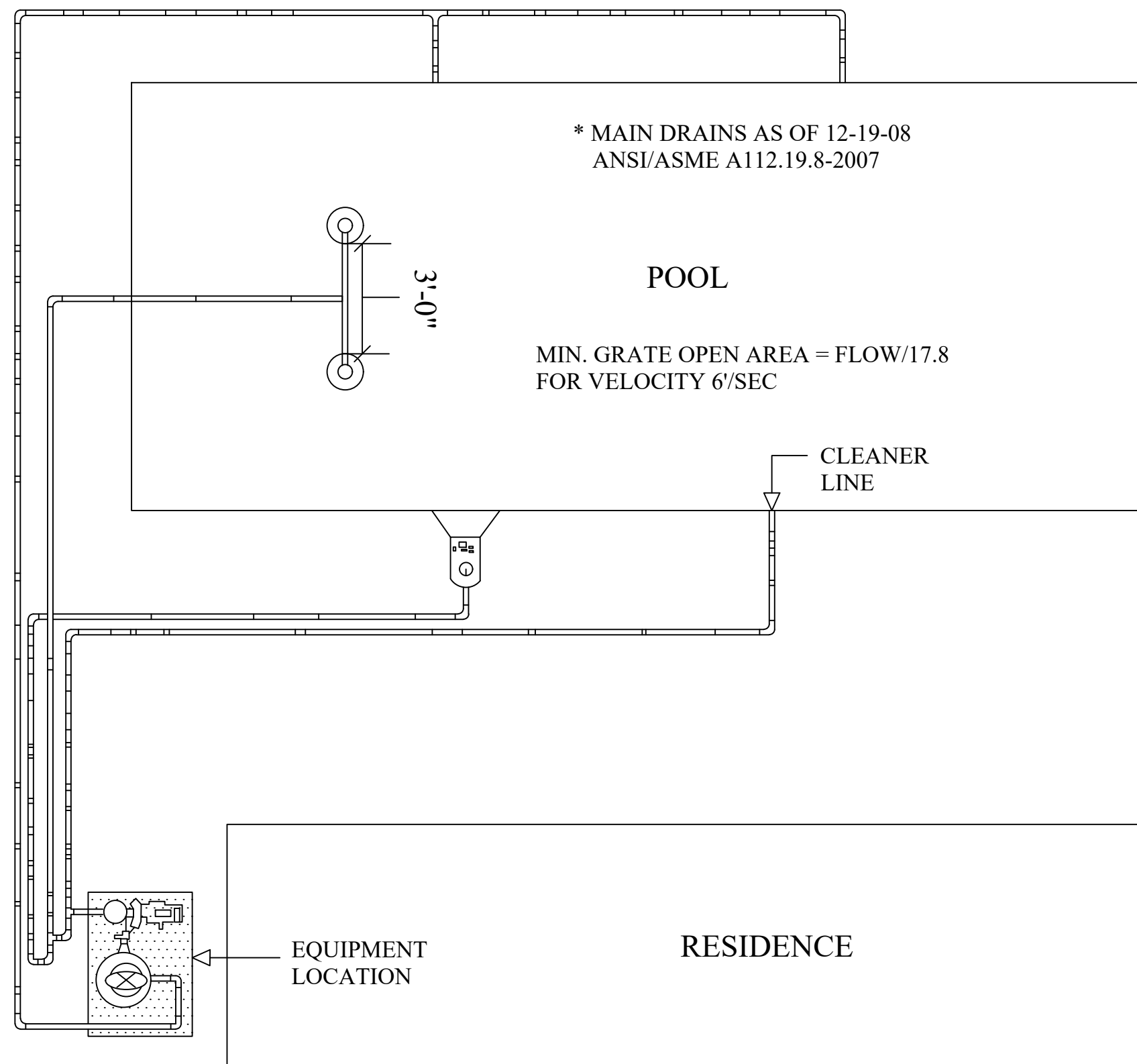
PIPE	SUCTION	PRESSURE
1 ½"	35 GPM	65 GPM
2"	60	105
2 ½"	90	147
3"	135	230
4"	235	396

MAIN SUCTION PIPE SIZE 2"

SKIMMER SUCTION PIPE SIZE 2"

CLEANER/VAC PIPE SIZE 1 1/2"

RETURN SUCTION PIPE SIZE 1 1/2"



- WIRING AND BONDING AND ALL ELECTRICAL TO COMPLY WITH CHAPTER 27, FLORIDA BUILDING CODE 7TH EDITION-RESIDENTIAL AND NEC 2017.

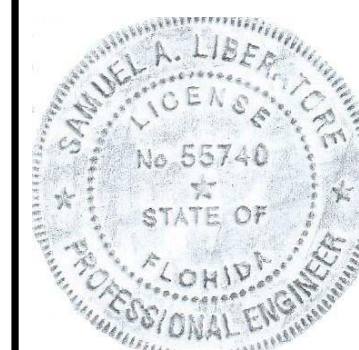
- NO OUTLET OR OVERHEAD POWER WITHIN 10' IF WITHIN 15' PROTECT BY GFI, TRANSFORMER MIN. 10' FROM POOL, 8" ABOVE WATER, J BOX 4' FROM POOL, BRASS TO J BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED.

R403.10 (MANDATORY)
POOLS & PERMANENT SPA ENERGY CONSUMPTION
- THE ENERGY CONSUMPTION OF POOLS AND PERMANENT
SPAS SHALL BE IN ACCORDANCE WITH SECTIONS R403.10.1
THROUGH R403.10.5.

IT HAS BEEN CERTIFIED THAT THESE DESIGN REQUIREMENTS ARE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 7TH EDITION, R4501, ANSI/APSP/ICC 3, ANSI/APSP/ICC 4, ANSI/APSP/ICC 5, AND ANSI/APSP/ICC 6 AND ANSI/APSP/ICC 7, ANSI/APSP/ICC 14, ANSI/APSP/ICC 15.

COMPLIES WITH FLORIDA BUILDING CODE, 7TH EDITION (2020)

Standard Residential Pool and/or Spa Design



This item has been electronically signed and sealed by Sam Liberatore PE using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

WUEL A. LIBERATOR
OCTOBER 10

Samuel A
Liberatore
2023.10.11
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