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STAMP STAMP

CONSULTANT

CONSULTANT

PREPARED FOR:

Bayridge Realty, LLC
16 Kings Way
Hyannis, MA 02601

PROJECT TITLE

Proposed Housing
900 Old Stage Road
Centerville, MA 02632

DATE DESCRIPTION

SHEET TITLE

Site Plan

SHEET NO

C3.1

DATE NOVEMBER 28, 2022

20 0 20 40

SCALE IN FEET

SCALE: 1"=20'

DRAWN BY: ZPP CHECKED BY: MWE

JOB NO: 2021-040 FILE: 2021-040 DM.dwg

CONCEPTUAL SEPTIC SYSTEM DESIGN REQUIREMENTS

NITROGEN LOADING LIMITATION (SEP): 440 GPD/40,000 SF x 172,061 SF = 1,893 GPD, MAX.**
IF 1/A INSTALLED ALLOWED 660 GPD/40,000 SF x 172,061 SF = 2,839 GPD, MAX.**

GARBAGE GRINDER (NOT INCLUDED) = N/A

- (6) 1-BEDROOM TOWNHOUSE UNITS
- (6) 2-BEDROOM TOWNHOUSE UNITS
- (2) 3-BEDROOM TOWNHOUSE UNITS

TOTAL SITE DEVELOPMENT: 24 BEDROOMS

24 BEDROOMS x 110 GPD/BR = 2,640 GPD

TOTAL DESIGN FLOW = 2,640 GPD < 2,839 GPD MAX ALLOWED FLOW **

ASSUME PERC RATE = $\leq 6 \text{ MIN/INCH}$ (CLASS 1)
LTAR = 0.74 GPD/SF

MIN. LEACHING AREA OF S.A.S. REQUIRED:
2,640 GPD / 0.74 GPD/SF = 3,568 SF, MIN.

PROPOSED SYSTEMS: 36' x 100' LEACHING FIELD = 3,600 SF

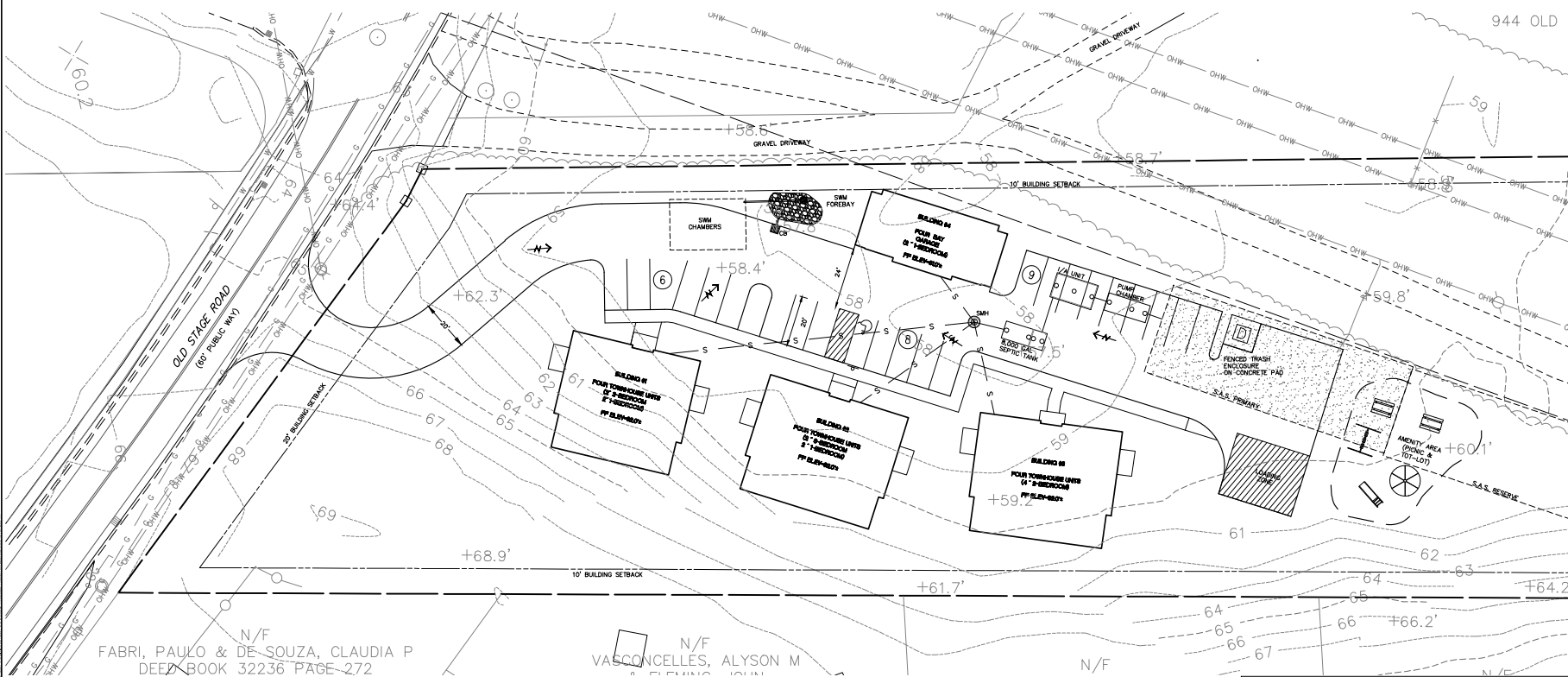
LEACHING CAPACITY = 3,600 SF x 0.74 GPD/SF = 2,664 GPD

SEPTIC SYSTEM TOTAL = 2,664 GPD > 2,640 GPD - OK.

SEPTIC TANK SIZING: FIRST COMPARTMENT - 2,640 GALLONS PER DAY x 200% = 5,280 GALLONS
SECOND COMPARTMENT - 2,640 GALLONS PER DAY x 100% = 2,640 GALLONS
SYSTEM TOTAL = 7,920 GALLONS
USE 8,000 GALLON TWO-COMPARTMENT SEPTIC TANK

**PROPERTY TO BE HELD TO MAXIMUM FLOW ALLOWED UNLESS A WAIVER OR VARIANCE FROM ARTICLE XV, PROTECTION OF SALTWATER ESTUARIES, REGULATION 380-45 IS GRANTED TO ALLOW GREATER FLOW.

**WITH AN INNOVATIVE/ALTERNATIVE SEPTIC SYSTEM, AN ALLOWABLE FLOW OF 660 GPD PER 40,000 SF MAY BE ALLOWED. (EQUATES TO 2,839 GPD).



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FABRI, PAULO & DE SOUZA, CLAUDIA P
DEED BOOK 32236 PAGE-272

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VASCONCELLES, ALYSON M

N/F

FOR PERMIT ONLY - NOT FOR CONSTRUCTION