

DESIGN PURPOSE:

THE PERMIT PREPARED FOR THE PROPERTY (21850 HWY 1, APN:109-070-010) IS A VOLUNTARY UPGRADE TO THE EXISTING SEPTIC SYSTEM SERVING THE TIMBER COVE RESORT (21780 HWY 1, APN:109-070-009). THE PROPOSAL IS TO ADD A NEW 2,000 GALLON GREASE TRAP, 5,000 GALLON SEPTIC TANK AND STANDARD LEACH FIELD (445LF) ZONE TO THE EXISTING DUAL ZONE STANDARD LEACH FIELD TO MAKE UP A TRI-ZONE WASTEWATER TREATMENT SYSTEM. THIS TRI-ZONE SYSTEM WILL EQUALLY DISTRIBUTE WASTEWATER TO THE 3 ZONES VIA A 3-WAY EQUAL DISTRIBUTION BOX. THE EXISTING SEPTIC SYSTEM LIES ON BOTH PROPERTIES (APN: -009 & -010), A SEWAGE DISPOSAL EASEMENT WILL BE OBTAINED TO OFFICIALLY DOCUMENT THE USE OF (APN: -010) FOR WASTEWATER PURPOSES SERVING (APN: -009). THE EXISTING USE AT THE TIMBER COVE RESORT IS TO REMAIN THE SAME, WITH NO CHANGES TO THE WASTEWATER QUANTITY OR STRENGTH. THE GREASE TRAP WILL IMPROVE TREATMENT CONDITIONS FOR THE KITCHEN WASTE AND THE 5,000 GALLON SEPTIC TANK WILL REPLACE THE EXISTING 1,500 GALLON TANK AND IMPROVE RESIDENCE TIME FOR SETTLEMENT.

EXISTING AREA

SITE REVIEW:
A SITE REVIEW WAS CONDUCTED BY A REPRESENTATIVE FROM THE SONOMA COUNTY PERMIT AND RESOURCE MANAGEMENT DEPARTMENT ON JUNE 24, 2002.

PERCOLATION TEST:
PERCOLATION TESTING WAS CONDUCTED BY A REPRESENTATIVE FROM FROST MEGLIO AND ASSOCIATES IN 1985.

AVERAGE PERCOLATION RATE: 5 MINUTES PER INCH AT VARYING DEPTHS THROUGH 7'.
SOIL APPLICATION RATE: 1.086 GAL/SF/DAY

GROUND WATER TEST:
WET WEATHER GROUND WATER TESTING WAS PERFORMED ON FEBRUARY 13, 2008 BY A REPRESENTATIVE OF ADOBE ASSOCIATES INC.
WET WEATHER GROUND WATER TEST DEPTHS: DRY TO 110" AND 109".

EXISTING SYSTEM DESIGN: DUAL FIELDS (212 LINEAL FEET EACH FIELD) (424 LF) X (9 SF/LF) = 3,816 SF X (1.086 GAL/SF/DAY) = 4,144 GALLONS CAPACITY (2,072 GAL PER FIELD)

DISPOSAL FIELD TRENCH DESIGN: 84" DEEP X 24" WIDE, w/54" GRAVEL BELOW LEACHLINE LATERAL, SPACED 12' O.C.

RESERVE SYSTEM DESIGN: 453 LF SHOWN (453 LF) X (9 SF/LF) = 4,077 SF X (1.086 GAL/SF/DAY) = 4,428 GALLONS CAPACITY

RESERVE DISPOSAL FIELD TRENCH DESIGN: 84" DEEP X 24" WIDE, w/54" GRAVEL BELOW LEACHLINE LATERAL, SPACED 12' O.C.

AREA B

SITE REVIEW:
A SITE REVIEW WAS CONDUCTED BY A REPRESENTATIVE FROM THE SONOMA COUNTY PERMIT AND RESOURCE MANAGEMENT DEPARTMENT ON JUNE 24, 2002.

PERCOLATION TEST:
PERCOLATION TESTING WAS CONDUCTED BY A REPRESENTATIVE FROM ADOBE ASSOCIATES INC. ON JANUARY 24, 2007.

AVERAGE PERCOLATION RATE: 12 MINUTES PER INCH FOR PERCOLATION TEST HOLES #3-#7 AT DEPTHS OF 36" & 48"
SOIL APPLICATION RATE: 0.771 GAL/SF/DAY

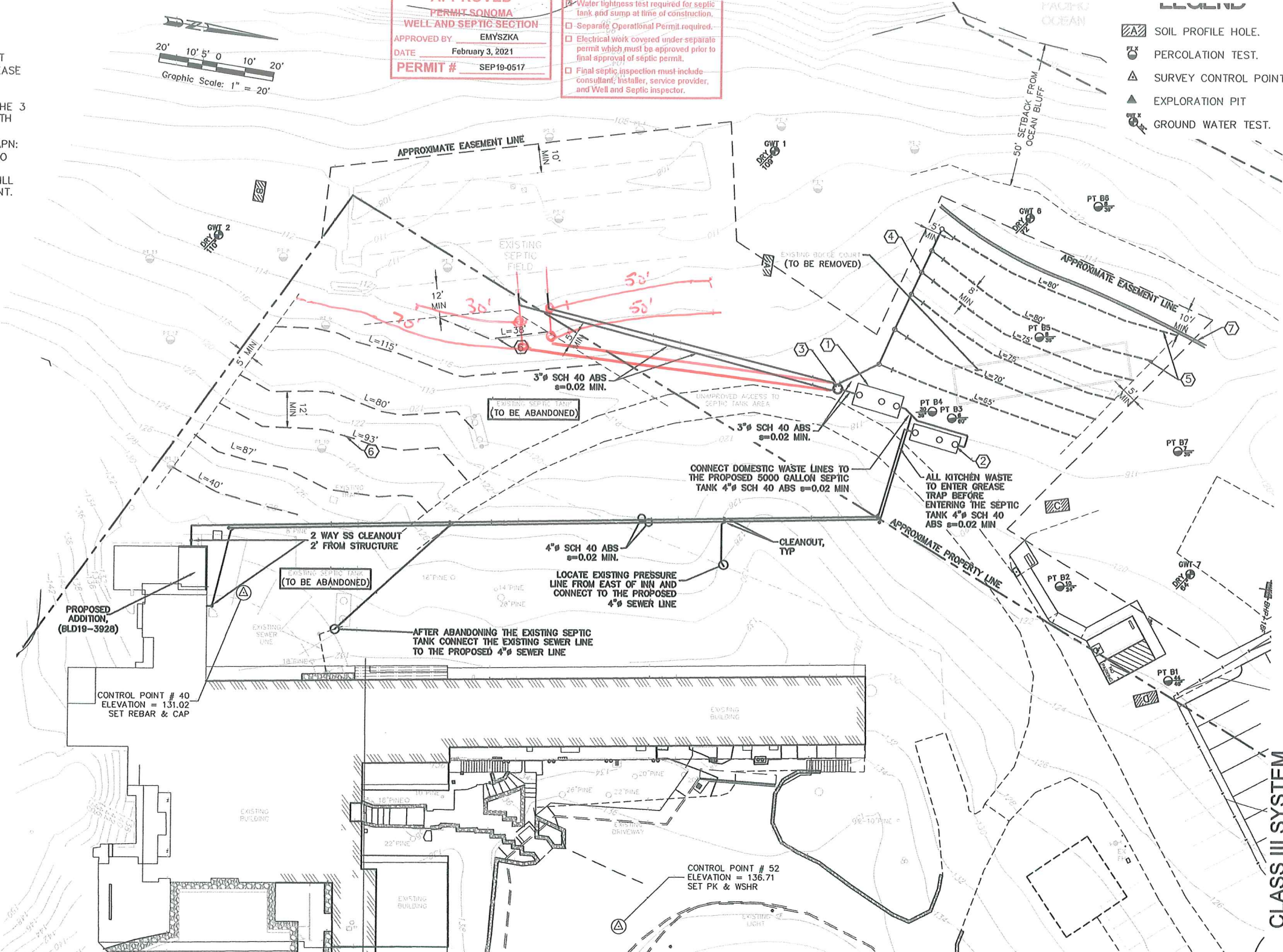
GROUND WATER TEST:
WET WEATHER GROUND WATER TESTING WAS PERFORMED ON FEBRUARY 13, 2008 BY A REPRESENTATIVE OF ADOBE ASSOCIATES INC.
WET WEATHER GROUND WATER TEST DEPTHS: DRY TO 72" AND 64".

PRIMARY SYSTEM DESIGN: 445 LINEAL FEET, PRIMARY DISPOSAL FIELD SHOWN, (445 LF) X (3 SF/LF) = 1,335 SF X (0.771 GPD/SF) = 1,028 GAL/DAY CAPACITY

DISPOSAL FIELD TRENCH DESIGN: 36" DEEP X 24" WIDE, w/18" GRAVEL BELOW LEACHLINE LATERAL, SPACED 8' O.C.

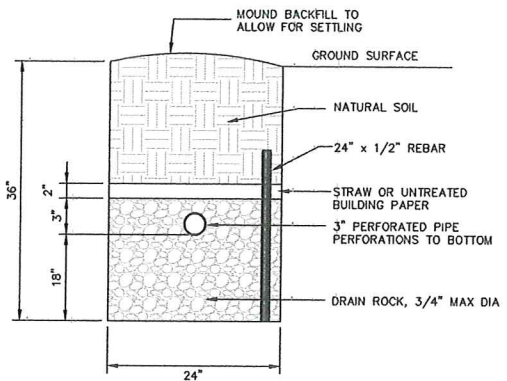
LEGEND

- ① 5000 GALLON (IAPMO APPROVED) CONCRETE SEPTIC TANK, JENSEN MODEL NO# JZ5000EE-ST (SEE DETAIL, SHEET 3)
- ② INSTALL 2,000 GALLON (IAPMO APPROVED) 3-COMPARTMENT CONCRETE GREASE INTERCEPTOR TANK, (SEE DETAIL, SHEET 3)
- ③ EQUAL DISTRIBUTION BOX (SEE DETAIL SHEET 3)
- ④ DISTRIBUTION BOX AND 5 FEET OF 3" SCH 40, PVC SOLID PIPE, TYP. (SEE DETAIL, SHEET 3)
- ⑤ PRIMARY SANITARY SEWAGE DISPOSAL FIELD LOCATION (TO BE CONSTRUCTED) (SEE PRIMARY LEACHLINE TRENCH DETAIL, THIS SHEET)
- ⑥ RESERVE SANITARY SEWAGE DISPOSAL FIELD LOCATION (NOT TO BE CONSTRUCTED) (SEE RESERVE LEACHLINE TRENCH DETAIL, THIS SHEET)
- ⑦ STRAW WATTLE CHECK DAM (SEE DETAIL, SHEET 3)

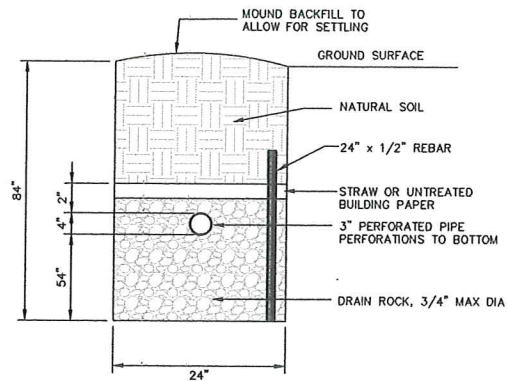


SEPTIC SYSTEM PLAN

SCALE: 1" = 20'



PRIMARY LEACH LINE TRENCH DETAIL
NTS



RESERVE LEACH LINE TRENCH DETAIL
NTS

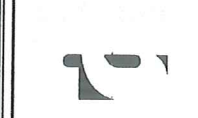
PERMIT SONOMA WELL AND SEPTIC SECTION
APPROVED BY: EMYSZKA
DATE: February 3, 2021
PERMIT #: SEP19-0517

- Water tightness test required for septic tank and sump at time of construction.
- Separate Operational Permit required.
- Electrical work covered under separate permit which must be approved prior to final approval of septic permit.
- Final septic inspection must include consultant, installer, service provider, and Well and Septic Inspector.

- LEGEND**
- SOIL PROFILE HOLE.
 - PERCOLATION TEST.
 - SURVEY CONTROL POINT.
 - EXPLORATION PIT
 - GROUND WATER TEST.

No.	Date	Revisions Description

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Steven R. Brown, PCE #43825
My License Expires 6/30/2021



STANDARD TYPE REPAIR PRIVATE SEWAGE DISPOSAL SYSTEM
21780 & 21850 State Highway 1
Jenner California
APN 109-070-009 & 010

Scale: AS SHOWN
Date: JANUARY 2, 2020
Design by: SRB
Drawn by: PCA3
Checked by: SRB