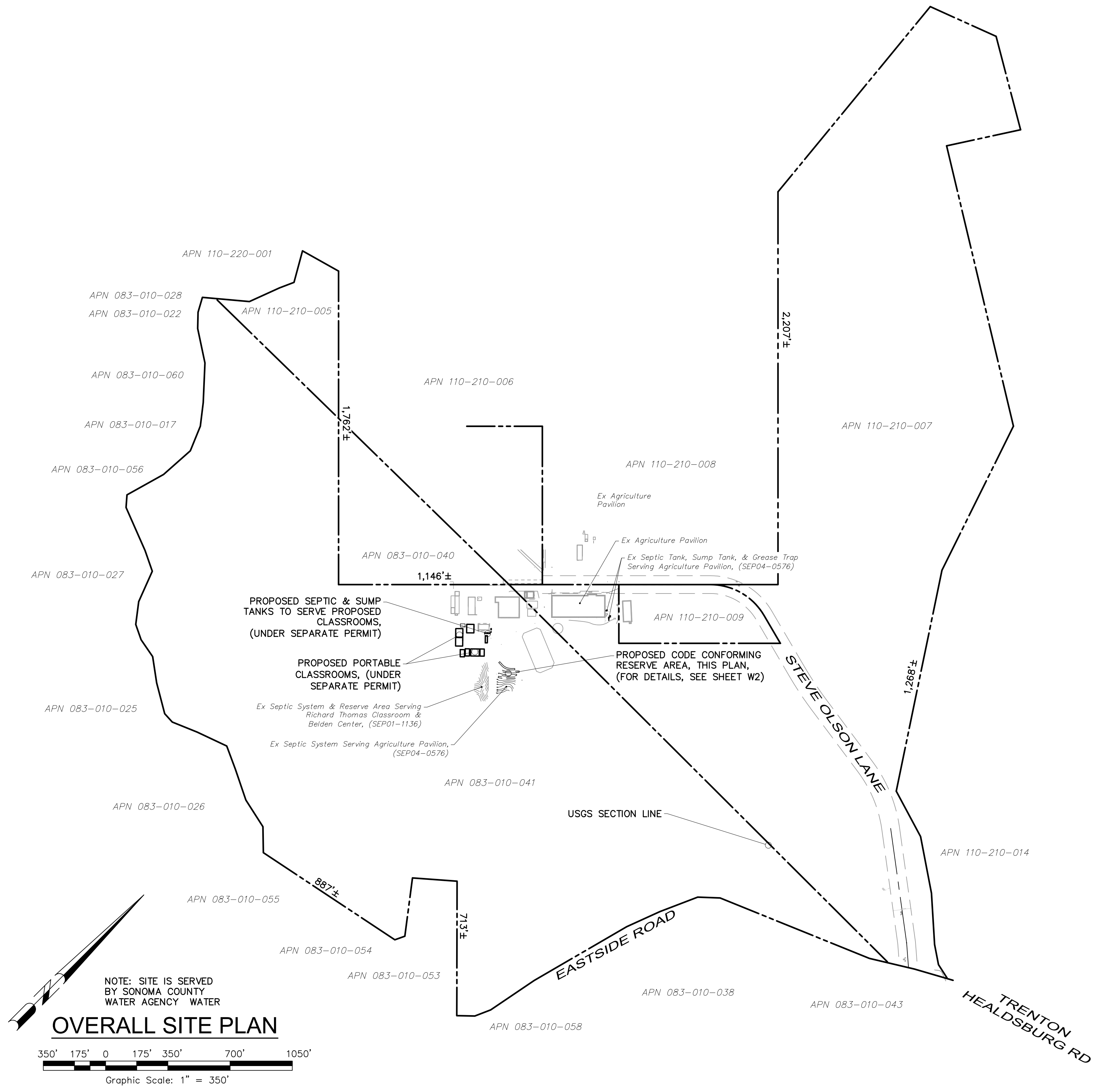
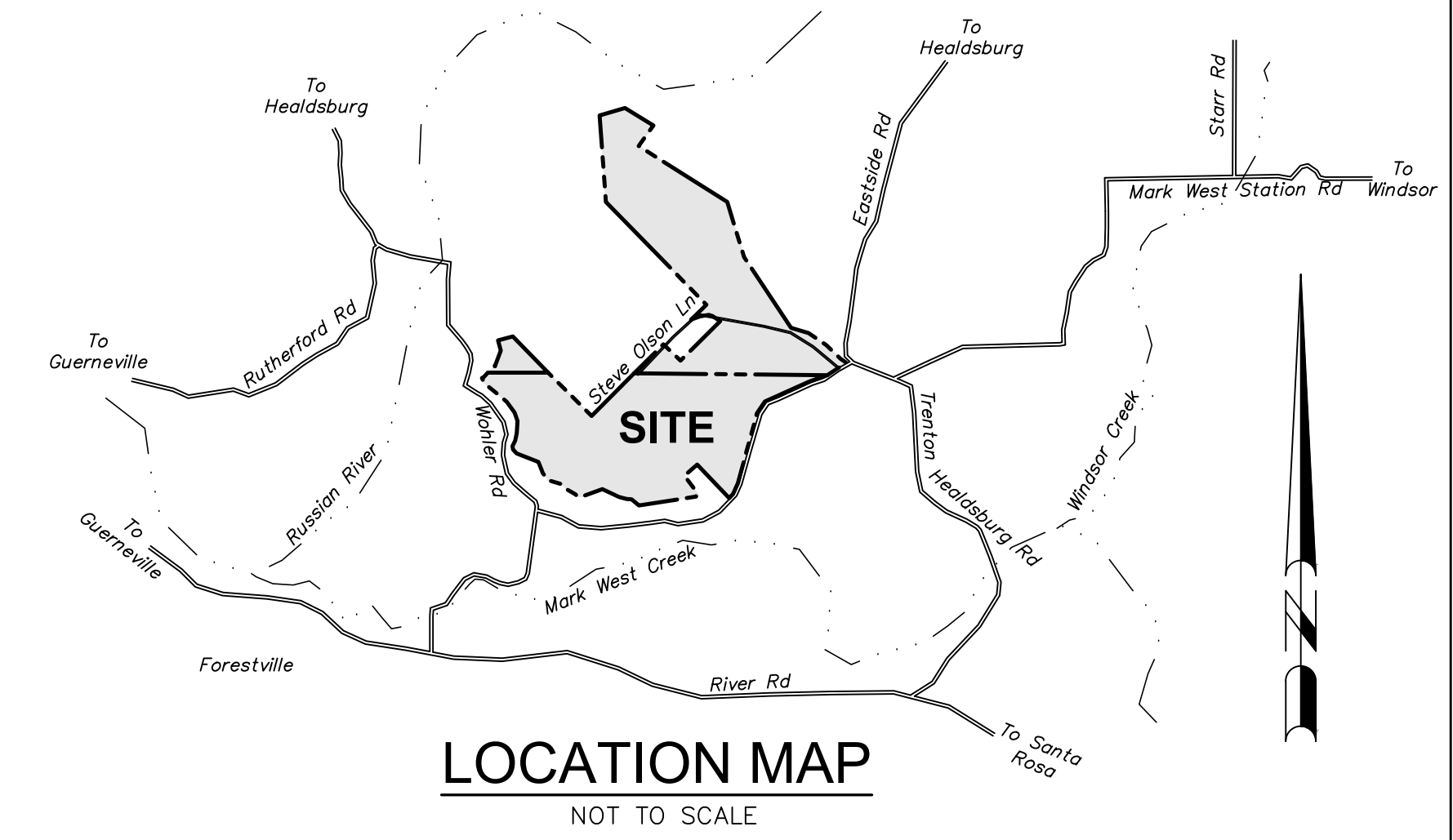


# SEPTIC DESIGN APPLICATION: DESIGNATED RESERVE FOR COMMERCIAL SEWAGE DISPOSAL SYSTEM

7450 Steve Olson Lane  
Healdsburg, California

APN 083-010-041



Revisions	No.	Date	Description	Approved

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*Signature*  
Steven R. Brown, PE 43825  
My License Expires 6/30/2021

**COMMERCIAL SEWAGE DISPOSAL SYSTEM  
RESERVE SEPTIC SYSTEM PLAN**  
7450 Steve Olson Lane  
Healdsburg, California  
APN 083-010-041

SCALE: AS NOTED  
Date: MARCH 18, 2021  
Design by: CJB  
Drawn by: CJB  
Checked by: GMS

Sheet  
**W1**  
of 2 Sheets  
Job 20011

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**DESIGN CRITERIA:**

**PROJECT PURPOSE:**  
 THE SUBJECT 285± ACRE PARCEL IS THE CURRENT LOCATION OF THE SANTA ROSA JUNIOR COLLEGE'S SHONE FARM. THE SRJC SHONE FARM SERVES AS AN AGRICULTURE EDUCATION FACILITY. THE PARCEL IS DOCUMENTED BY THE 1972 RECORD OF SURVEY FOUND ON BOOK OF MAPS 180 PAGES 6,7&8. THE TRUE PARCEL CONTAINS SEVERAL PARCEL NUMBERS THAT WERE ASSIGNED DUE TO A USGS SECTION LINE WHICH BISECTS THE PROPERTY AND ALSO ACTS AS A SPLIT FOR THE ASSESSOR TO CREATE ANOTHER PARCEL MAP. DUE TO THE POTENTIAL PROBLEMS, THE PROPERTY WAS FURTHER RESEARCHED BY THE PROJECT SURVEYOR WHO REVIEWED THE TITLE REPORT.

IN 2004 THE CAMPUS UNDERWENT WASTEWATER TESTING BY ATTERBURY & ASSOCIATES, INC TO EVENTUALLY DESIGN A 1,473GPD FILLED LAND SEPTIC SYSTEM (SEP04-0576). THE 24" PERCOLATION TESTING COMPLETED WAS SUFFICIENT TO PERMIT THE FILLED LAND SYSTEM AND THE AGRICULTURE PAVILION WITH STAFF, STUDENTS, COMMERCIAL KITCHEN, WINERY PROCESS WASTE & SPECIAL EVENTS. THE EXISTING SEPTIC SYSTEM HAS SUSTAINED THE USE WITH NO PROBLEMS.

THE SRJC IS PROPOSING TO ADD CLASSROOMS TO THE PROPERTY AND CONNECT TO THE EXISTING SEPTIC SYSTEM. IN ORDER TO FACILITATE THE BUILDING PERMIT PROCESS, A SEPTIC TANK ONLY PERMIT, AND CODE CONFORMING RESERVE AREA (THIS PLAN) HAVE BEEN DESIGNED.

WITH REFERENCE TO THE CURRENT SONOMA COUNTY OWTS 7.0, THE 24" PERCOLATION TESTING ALONE DOES NOT SUPPORT THE INSTALLATION OF A FILLED LAND SEPTIC SYSTEM. AN AT-GRADE SYSTEM PRECEDED BY A NSF APPROVED PRETREATMENT UNIT HAS BEEN DESIGNED TO BRING THE RESERVE AREA TO CURRENT CODE. THE PRETREATMENT UNIT HAS NOT BEEN SPECIFIED AND WILL BE DETERMINED WHEN THE RESERVE AREA IS EVER UTILIZED.

**SITE REVIEW:**  
 A SITE REVIEW WAS CONDUCTED BY ATTERBURY & ASSOCIATES, INC. WITH A REPRESENTATIVE FROM THE SONOMA COUNTY PERMIT AND RESOURCE MANAGEMENT DEPARTMENT ON JANUARY 29, 2004 (SEV04-0092).

**PERCOLATION TEST:**  
 PERCOLATION TESTS WERE CONDUCTED ON FEBRUARY 11, 2004 BY ATTERBURY & ASSOCIATES, INC. (SEV04-0093).

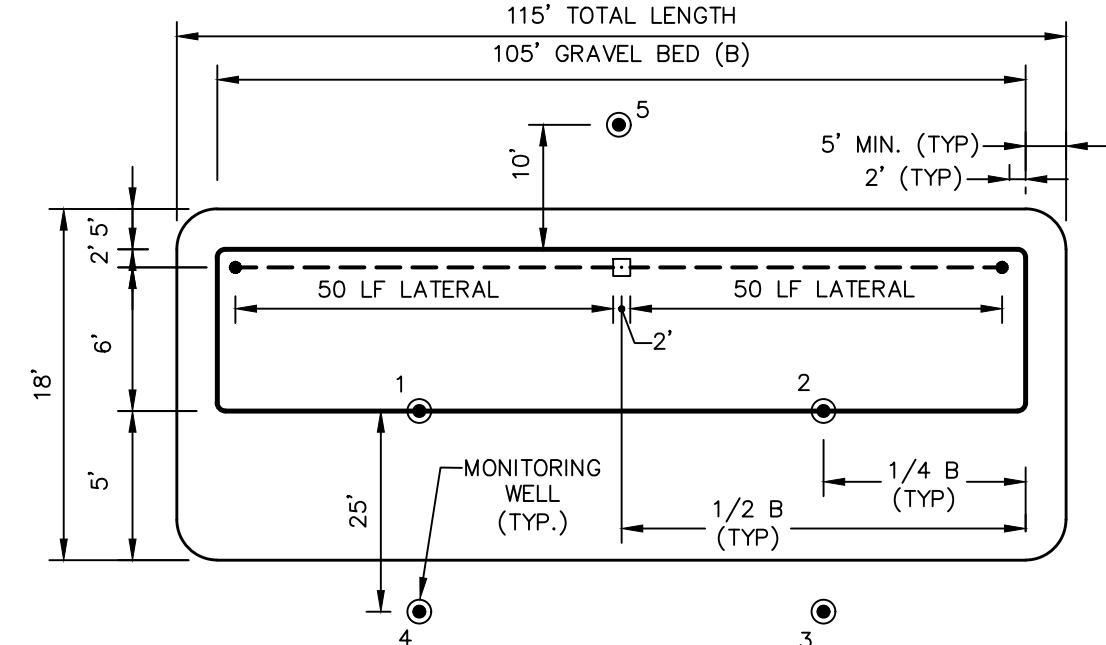
**AVERAGE PERCOLATION RATE:** 1.5 (MPI) MINUTES PER INCH @ 24" DEPTH.  
**SOL APPLICATION RATE (SAR):** 1.2 GAL./SQ. FT./DAY  
**LINEAR LOADING RATE (LLR):** 7 GAL./LINEAR FOOT/DAY

**GROUNDWATER TEST:**  
 WET WEATHER GROUNDWATER TESTS WERE CONDUCTED BY ATTERBURY & ASSOCIATES, INC. ON FEBRUARY 11 2004 (SEV04-0088).

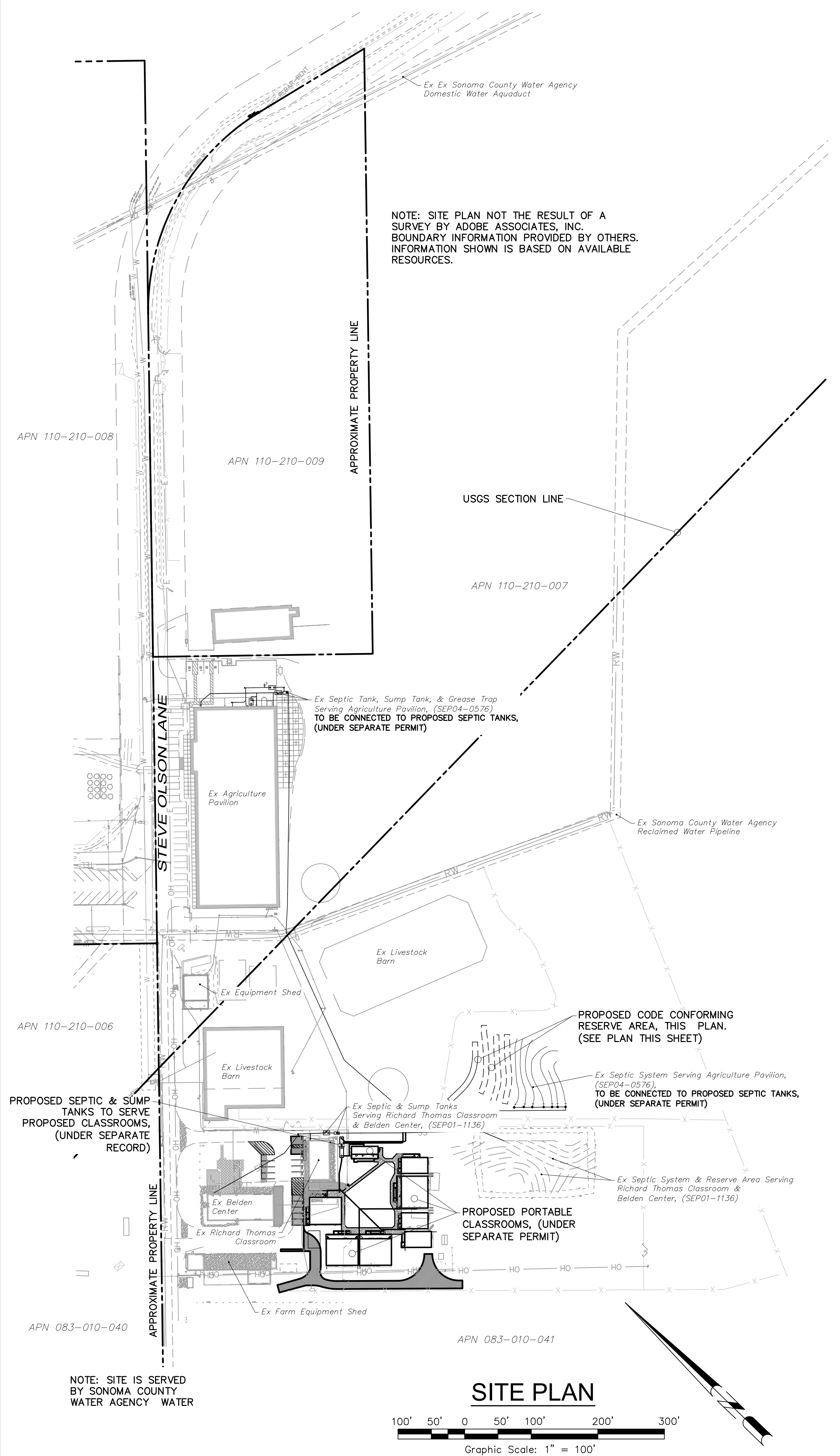
**AVERAGE SLOPE:** 1%  
**DESIGN CALCULATIONS/FLOWS:** 1,473 GALLONS PER DAY

**PRIMARY SYSTEM DESIGN:**  
 EXISTING PER SEP04-0576

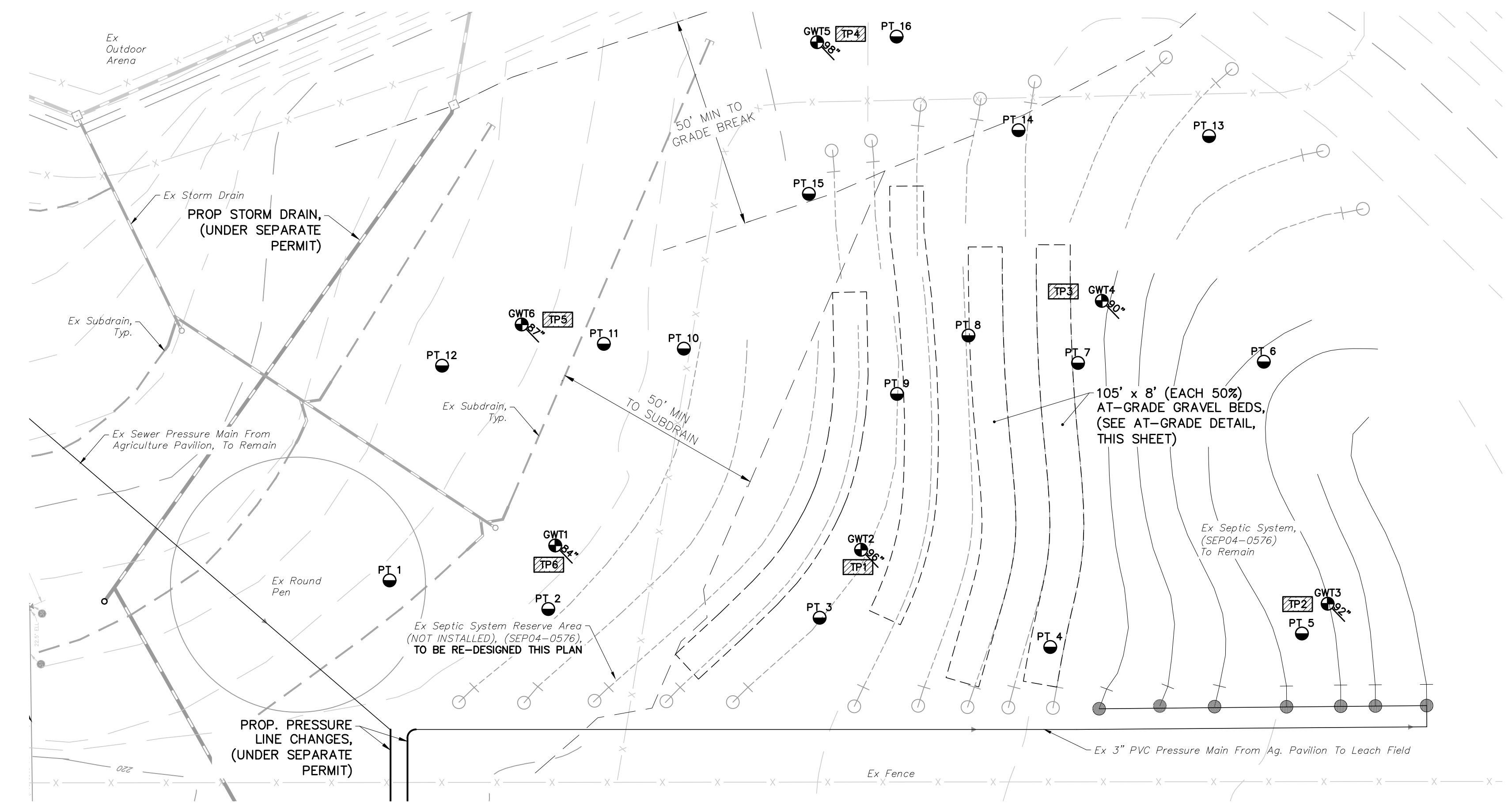
**RESERVE SYSTEM DESIGN:**  
 2,456 SQUARE FEET (200%) RESERVE DISPOSAL SYSTEM BASAL AREA REQUIRED.  
 2,520 SQUARE FEET (205%) RESERVE DISPOSAL SYSTEM BASAL AREA SHOWN.  
 (NOT TO BE CONSTRUCTED)



**(50%) AT GRADE DETAIL**  
 NTS



**SITE PLAN**  
 Graphic Scale: 1" = 100'



**SEPTIC SYSTEM PLAN**  
 Graphic Scale: 1" = 20'

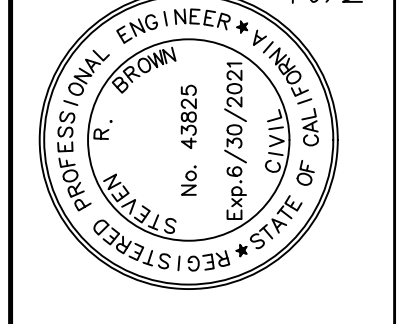
**LEGEND**

- SOIL PROFILE HOLE
- PERCOLATION TEST
- GROUND WATER TEST

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