

Napa County Department of
Environmental Management

SITE EVALUATION REPORT

Please attach an 8.5" x 11" plot map showing the locations of all test pits triangulated from permanent landmarks or known property corners. The map must be drawn to scale and include a North arrow, surrounding geographic and topographic features, direction and % slope, distance to drainages, water bodies, potential areas for flooding, unstable landforms, existing or proposed roads, structures, utilities, domestic water supplies, wells, ponds, existing wastewater treatment systems and facilities.

Permit #: E17-00542

APN: 052-080-026

(County Use Only)

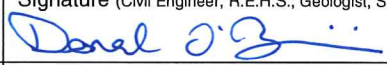
Reviewed by:

Date:

PLEASE PRINT OR TYPE ALL INFORMATION

Property Owner James Maggetti			<input type="checkbox"/> New Construction <input type="checkbox"/> Addition <input type="checkbox"/> Remodel <input type="checkbox"/> Relocation <input checked="" type="checkbox"/> Other: Repair	
Property Owner Mailing Address 410 Stonecrest Dr.			<input type="checkbox"/> Residential - # of Bedrooms: 7 Design Flow : 840 gpd	
City Napa	State CA	Zip 94558	<input type="checkbox"/> Commercial – Type: Winery Sanitary Waste: gpd Process Waste: gpd	
Site Address/Location 410 Stonecrest Dr. Napa, CA			<input type="checkbox"/> Other: Sanitary Waste: gpd Process Waste: gpd	

Evaluation Conducted By:

Company Name RSA+	Evaluator's Name Donal O'Briain	Signature (Civil Engineer, R.E.H.S., Geologist, Soil Scientist) 
Mailing Address: 1515 Fourth Street		Telephone Number 707-252-3301
City Napa	State CA	Zip 94559
		Date Evaluation Conducted 09/14/2017

Primary Area

Acceptable Soil Depth: 44 in. Test pit #'s: 9

Soil Application Rate (gal. /sq. ft. /day): 0.6

System Type(s) Recommended: Subsurface drip with pretreatment

Slope: 25 % Distance to nearest water source: >100'

Hydrometer test performed? No ☒ Yes ☐ (attach results)Bulk Density test performed? No ☒ Yes ☐ (attach results)Percolation test performed? No ☒ Yes ☐ (attach results)Groundwater Monitoring Performed? No ☒ Yes ☐ (attach results)**Expansion Area**

Acceptable Soil Depth: 32 Test pit #'s: 6

Soil Application Rate (gal. /sq. ft. /day): 0.6

System Type(s) Recommended:

Slope: 20% Distance to nearest water source:

Hydrometer test performed? No ☒ Yes ☐ (attach results)Bulk Density test performed? No ☒ Yes ☐ (attach results)Percolation test performed? No ☒ Yes ☐ (attach results)Groundwater Monitoring Performed? No ☒ Yes ☐ (attach results)**Site constraints/Recommendations:**

Site is an existing 5-bedroom residence with 2-bedroom guesthouse. 6,300 sf of suitable soil required for 7 bedroom subsurface drip with pretreatment system plus 200% reserve. 4,640 sf of soil proven suitable for subsurface drip with pretreatment. Existing site can serve up to a 4-bedroom system with 1,200 sf primary system to be located over Pit #9, 2,400 sf reserve to be located over Pit #6. Lines to be spaced at 3' due to slopes of greater than 20%. No other areas outside well, building, property line, driveway or slope setbacks had suitable soil for wastewater dispersal.

Test Pit # 1

X = Limiting Horizon	Horizon Depth (Inches)	Boundary	%Rock	Texture	Structure (Grade / Shape)	Consistence			Pores (QTY / Size)	Roots (QTY / Size)	Mottling (QTY / Size/ Contrast)
						Side Wall	Ped	Wet			
X	6		>50%								
X	6-20										

Notes: Large rocks near surface. Hardpan at 20". Pit no good.

Test Pit # 2

X = Limiting Horizon	Horizon Depth (Inches)	Boundary	%Rock	Texture	Structure (Grade / Shape)	Consistence			Pores (QTY / Size)	Roots (QTY / Size)	Mottling (QTY / Size/ Contrast)
						Side Wall	Ped	Wet			
X	18"		>50%								

Notes: Boulder on east side of pit, hardpan at 18". Pit no good.

Test Pit # 3

X = Limiting Horizon	Horizon Depth (Inches)	Boundary	%Rock	Texture	Structure (Grade / Shape)	Consistence			Pores (QTY / Size)	Roots (QTY / Size)	Mottling (QTY / Size/ Contrast)
						Side Wall	Ped	Wet			
X	4"		>50%								

Notes: Bedrock below thin layer of topsoil. Pit no good.

Test Pit # 4

X = Limiting Horizon	Horizon Depth (Inches)	Boundary	%Rock	Texture	Structure (Grade / Shape)	Consistence			Pores (QTY / Size)	Roots (QTY / Size)	Mottling (QTY / Size/ Contrast)
						Side Wall	Ped	Wet			
X			>50%								

Notes: Excessive rock near surface. Pit no good.

Test Pit # 5

X = Limiting Horizon	Horizon Depth (Inches)	Boundary	%Rock	Texture	Structure (Grade / Shape)	Consistence			Pores (QTY / Size)	Roots (QTY / Size)	Mottling (QTY / Size/ Contrast)
						Side Wall	Ped	Wet			
X	16"		>50%								

Notes: Hardpan at 16". No good.

Test Pit # 6

X = Limiting Horizon	Horizon Depth (Inches)	Boundary	%Rock	Texture	Structure (Grade / Shape)	Consistence			Pores (QTY / Size)	Roots (QTY / Size)	Mottling (QTY / Size/ Contrast)
						Side Wall	Ped	Wet			
	32	C	40%	SCL	M/G	L	FRB	SS	CM	CM	
X											

Notes: 32" of sandy clay loam. Hardpan at 32". Pit good.

7

Notes: Mottling at 16". Pit no good.

8

Notes: Hardpan at 12". Pit no good.

9

Notes: Hardpan at 44". Pit good.

10

Notes: Mottling, decomposing rock at 6" and 12". Pit no good.

11

Notes: Hardpan at 12".

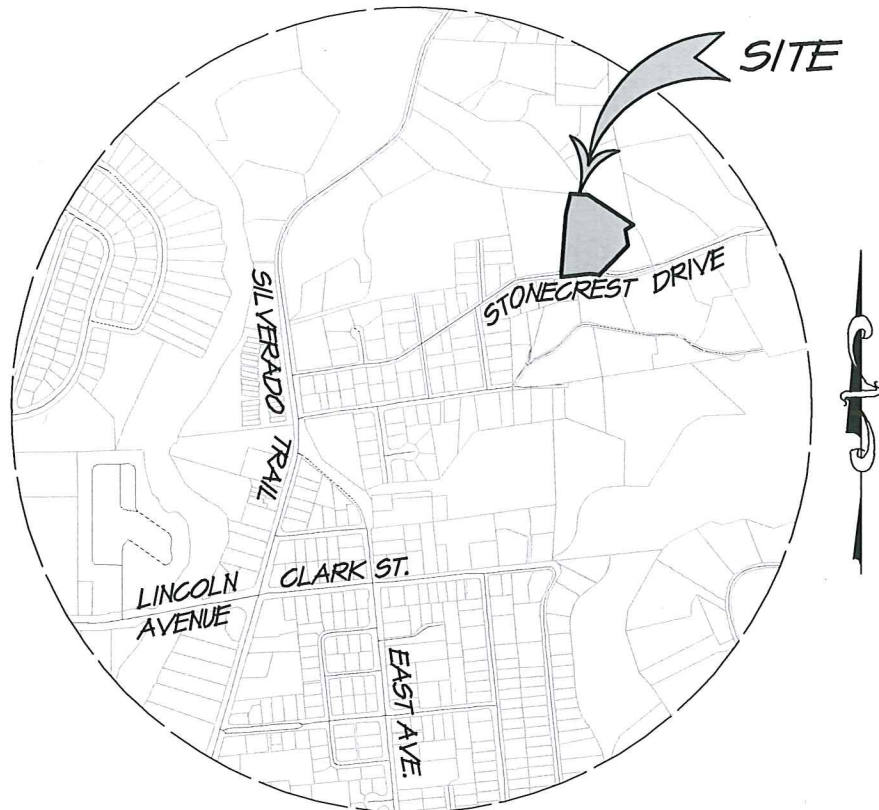
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Notes:

STONECREST RESIDENCE VICINITY MAP

NAPA COUNTY

CALIFORNIA



VICINITY MAP

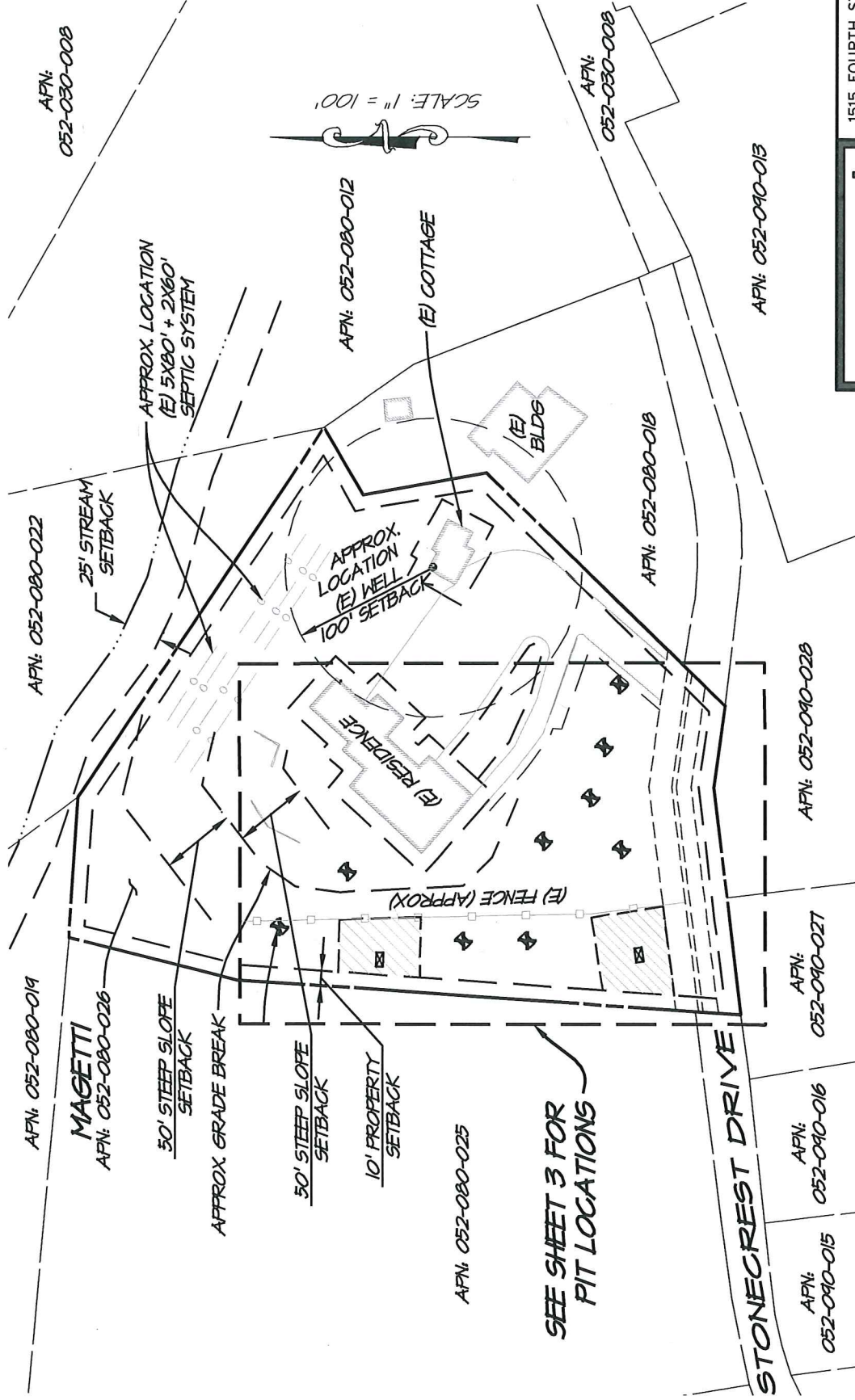
SCALE: 1" = 1000'



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STONECREST RESIDENCE PIT MAP



PIT LEGEND

<input checked="" type="checkbox"/> TP#1	TEST PIT
<input checked="" type="checkbox"/> TP#1	NOT GOOD

SITE EVALUATION DATE: SEPTEMBER 14, 2017

APN: 052-080-026

ADDRESS: 410 STONECREST DRIVE

NAPA, CA 94558

ENV. HEALTH INSPECTOR: DARRELL CHAOTE

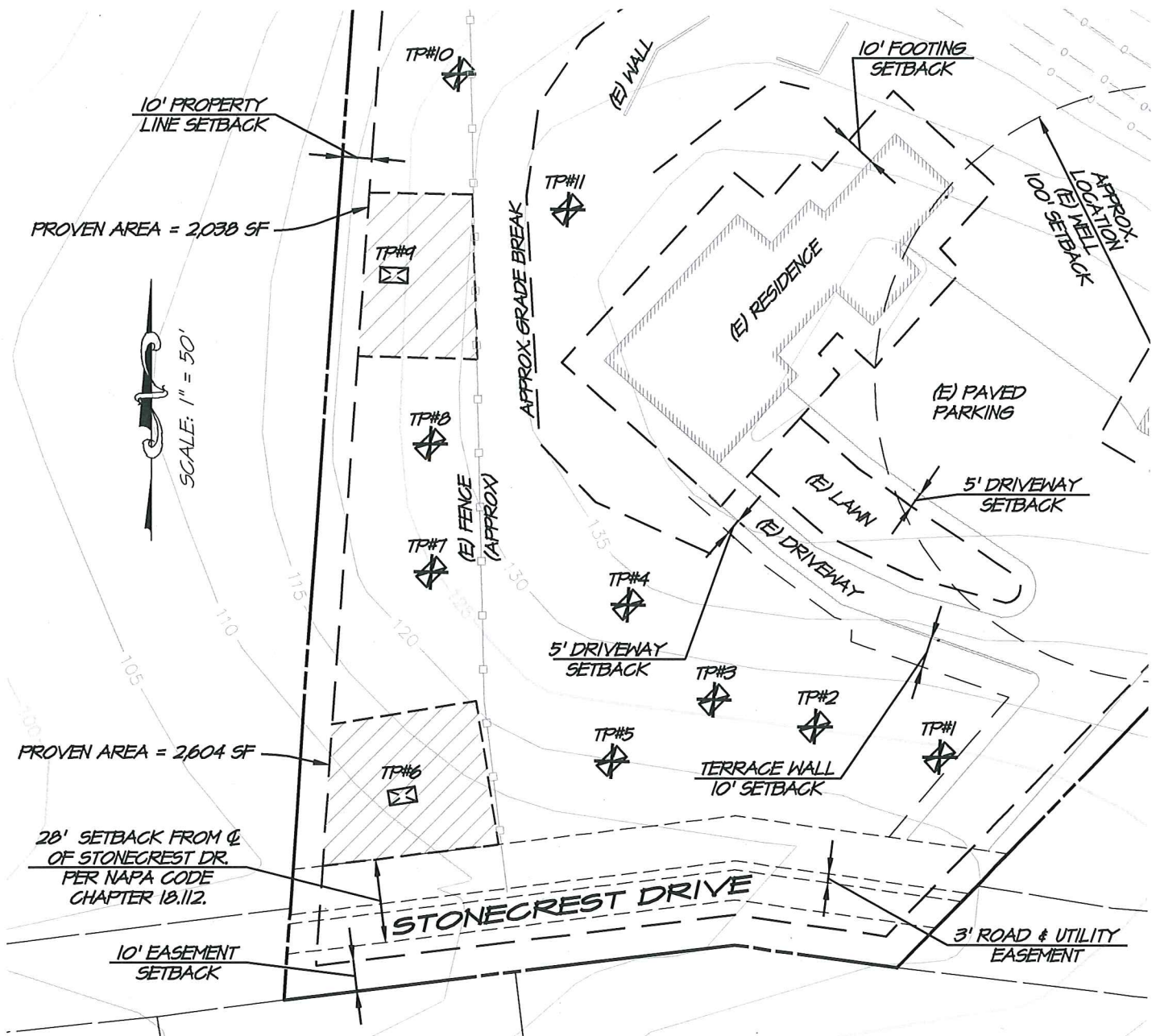
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STONECREST RESIDENCE PIT LOCATIONS



PIT LEGEND

TP#1 TEST PIT

TP#1 NOT GOOD

SITE EVALUATION DATE: SEPTEMBER 14, 2017
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 ADDRESS: 410 STONECREST DRIVE
 NAPA, CA 94558
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