

Project Location:		13755 Monterey Road, San Martin, California [San			ıta Clara County]	
Prope	erty Owner:	NWC No. 5 Partners	hip, LLC			
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Date:	07/27/22	By: David Quinn / A	ndrew Brownstone	Sheet:		
REVISIO	N:		Job No.: 22008	APN: 779-09-061	1 OF 2	

PROJECT DESCRIPTION

A conventional gravity-flow Onsite Wastewater Treatment System (OWTS) utilizing Quick4 Plus High-Capacity Infiltrator Chambers is proposed to serve a proposed restroom facility (for 10 daytime employees) located on 13755 Monterey Road, San Martin, in Santa Clara County, California.

CONSTRAINTS & DESIGN CRITERIA

- The proposed system is designed to serve a restroom facility with a design wastewater flow of 150 gallons per day (gpd) per
- County DEH guidelines.
- Soil profiles did not exhibit any evidence of seasonally high groundwater conditions to a depth of 13'.
- No wells, springs or watercourses are situated within 100' of the proposed Onsite Wastewater Treatment System.

(P) RESTROOM FACILITY 10 EMPLOYEES × 15 GPD/EMPLOYEE = 150 GPD AVG ADJ STABILIZED PERC RATE = 4 MPI 1.0 GPD/SF APPLICATION RATE

150 GPD ÷ 1.0 GPD/SF = 150 SF 150 SF ÷ 4 SF/LF = 37.5 LF OF TRENCH REQUIRED

40 LF = 10 INFILTRATOR CHAMBERS

40 LF (10 CHAMBERS PRIMARY) + 40 LF (10 CHAMBERS SECONDARY) TOTAL: 80 LF / 20 QUICK4 PLUS HIGH-CAPACITY INFILTRATOR CHAMBERS

PRIMARY AND SECONDARY DRAINFIELDS, EACH CONSISTING OF ONE 3 FT-WIDE, 40 FT-LONG TRENCH COMPOSED OF 10 QUICK4 PLUS HIGH-CAPACITY INFILTRATOR CHAMBERS EACH TRENCH SHALL HAVE A TOTAL DEPTH OF 4 FEET (SEE DETAIL) TRENCHES SHALL BE SPACED 6 FT ON CENTER

SPECIFICATIONS

1. Building Sewer Lines, & Proposed Processing Tank

- 1.1. A 4" ABS building sewer line shall be installed to convey all raw sewage from dwelling to the septic tank. All gravity sewer piping must maintain a minimum 2% continuous gradient. All wastewater including graywater shall be discharged to the septic tank.
- 1.2. Locate a 2-way, 4" ABS cleanout fittings on the building sewer to facilitate snaking and line location. 1.3. The septic tank shall be a 1,500 gallon concrete, pinnacle-style Chapin Pre-Cast septic tank. The tank shall have 24" diameter OSI access risers with fiberglass, bolt-down lids. The tank shall be installed according to the manufacturers guidelines including anti-flotation specifications.
- 1.4. The tank hole shall be excavated so that the tank sits level. Install the access risers with a watertight joint using the adhesives supplied by manufacturer. Access riser lids shall be brown unless otherwise requested
- 1.5. Install the tank inlet fitting with a watertight joint. Cap off or use a test plug on this fitting and fill the tank with clean water 2" above the joint between the riser and the tank top. Repair any leaks.
- 1.6. Obtain a watertight tank inspection by EH and the designer or distributor with 24 hours notice to each.
- 1.7. Install an OSI Effluent Filter (Model: FTS0444-36V) at tank outlet.
- 2. Effluent Distribution and Dispersal Trenches
- 2.1. A Bull Run Valve shall be installed to divert effluent flow between the two proposed trenches as shown on the plan. 2.2. 4" ABS or SCH 40 PVC tightline shall be used to make gravity flow connections between the septic tank and the drainfield trenches. All gravity lines shall maintain a continuous 2% min. gradient.
- 2.3. A primary and secondary leachfield shall each consist of a total of 10 Quick4 Plus High-Capacity Infiltrator Chambers.
- 2.4. Trenches shall be spaced 6' on center and shall be installed with a total depth of 4 feet.
- 2.5. Installer shall assure that surface drainage is directed away from the proposed septic tank and dispersal trenches. 3. Piping Schedule
- 3.1. All piping shall be installed to conform to requirements in the current California Plumbing Code. 3.2. The house sewer pipe to the septic tank shall be constructed of 4" ABS and shall include a 2-way clean out
- fitting near dwelling as shown on the plan. . Installer Qualifications and Responsibilities
- 4.1. The system installer shall be licensed by the State of California, Department of Consumer Affairs, to install septic systems
- 4.2. All piping shall conform to the current edition of the California Plumbing Code.
- 4.3. The installer shall be responsible for locating any property lines, underground utilities or piping. Any damage to these facilities shall be the responsibility of the installer.

4.4. For tree setback requirements, refer to the Santa Clara County Ordinance C-16 Tree Preservation and Revision. 4.5. The appropriate Environmental Health Office or Specialist must be notified by the installation contractor at least 48hours prior to starting construction and for each required inspection: Main Office (1555 Berger Drive, Suite 300, San Jose) 408-918-3400 or South County Office (80 Highland Ave, San Martin) 408-918-3400

- Site Clean up and Erosion Control Measures
- 5.1. All excavated areas shall be smoothed and all construction debris shall be removed from the site.
- 5.2. All disturbed soils shall be seeded and mulched. Erosion Control Mix seed shall be used at the coverage recommended on the package for all disturbed soil.
- 5.3. Straw shall be used to cover all disturbed soil.
- 5.4. PER DIVISION C12, CHAPTER III OF THE COUNTY CODE (Sec. C12-513. Temporary erosion control.) "The permittee and any person(s) doing, causing or directing the grading shall install and maintain all precautionary measures necessary to protect adjacent watercourses and public or private property from damage by erosion, flooding, or deposition of mud or debris originating from the site. Precautionary measures must include provisions of properly designed erosion prevention and sediment control measures, so that downstream properties are not affected by upstream erosion or sediment transport by stormwater."

SYSTEM OPERATION AND MAINTENANCE

- The septic tank should be pumped when the total thickness of the scum and sludge layers in the inlet side of the tank is greater than 1/3 of total liquid level depth, typically about 2 feet.
- The effluent filter in the septic tank should be removed yearly and cleaned by hosing off into the inlet side of the septic tank. Less frequent cleanings may be acceptable.
- Grease and oils should not be put into the home drains.
- The septic tank is alive with microorganisms performing oxidation and reduction of the contents. Do not add any materials (paint thinner, paint, motor oil, unused medicine, cat litter, etc.) that may disrupt this process.
- DO NOT ROUTE WATER SOFTENER BACKFLUSH DISCHARGE TO TREATMENT SYSTEM! This
- discharge may be routed directly to an approved dispersal field.
- Repair all plumbing leaks (especially toilet leaks) promptly.
- Keep the area over the leach fields trimmed to prevent the growth of trees and shrubs. Do not construct anything or drive/park over the septic tanks or dispersal trenches.









	1	2	3	4	5	6	
	4.10'	4.00'	4.00'	4.00'	4.15'	3.90'	
R	0.60	8.50	5.80	2.50	1.00	5.60	
$R_1 = R \ge 1.4$	0.84	11.9	8.12	3.50	1.40	7.84	
$R_2 = (\sum R_1) / #Holes$							4.08
FOR OFFICE USE ONLY	TANK SIZE (Gal) Leach Line (Ft)						

COUNTY E.H. ACCEPTANCE/APPROVAL STAMPS

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1315 King Street Santa Cruz, CA 95060 Tel: (831) 430-9116 www.biosphere-consulting.com

Alternative Wastewater System Design

ONSITE WASTEWATER TREATMENT SYSTEM DESIGN PLAN



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