



County of San Diego
Department of Environmental Health and Quality
Land and Water Quality
5500 Overland Ave., Suite 210, San Diego, CA 92123 / (858) 565-5173
www.sdcdehq.org

ONSITE WASTEWATER TREATMENT SYSTEM LAYOUT APPROVAL
EXPIRATION DATE: 8/22/2027

Owner: Roach Nicholas&Anna-Marie
Address: 35&36 Euclid Ave*El Cajon Ca\
El Cajon, CA 92019
Phone:
Site: 2255 EUCLID AVE, EL CAJON
Parcel: 512-180-36-00
Certification: PERC TEST
Record ID: DEH2024-LOWTS-018332

This project is **APPROVED** for the following:

Commercial / Residential: Residential
Number of Bedrooms: 4
Gallons / Day: 600

THIS IS NOT AN ONSITE WASTEWATER TREATMENT SYSTEM PERMIT

You have until 8/22/2027 to obtain a septic permit. However, a site recheck may be required at any time to determine if site conditions have changed. Refer to the County of San Diego, Department of Environmental Health and Quality, Local Agency Management Program for Onsite Wastewater Treatment Systems for all applicable setbacks and standard conditions of approval.

ONSITE WASTEWATER SYSTEM REQUIREMENTS

Primary Septic Tank (in gallons): 1200
Supplemental Treatment Type: Presby Enviro-Septic, *Other Supplemental Treatment:*
Make/Model of Supplemental Treatment:
System Details:

Soil Disposal System

	System Type	Length	Width	Depth	Cap Depth	Spacing	Depth of Medium	# of Pods
Primary Dwelling	AES Pipe	280	23.70	3	1		1	

CONDITIONS TO BE COMPLETED PRIOR TO THE ISSUANCE OF A SEPTIC PERMIT

Potable Water Source: Public Water Supply
DEHQ Grading Inspection:
Water District: Helix Water District
DEHQ Building Plan Review:

COMMENTS: PROPOSED 4BR SFD

INSTALL 1200 GALLON SEPTIC TANK CONNECTED TO PUMP CHAMBER AND SURGE TANK.
SYSTEM TO WASTE INTO NEW 1685 SQFT PRESBY BED.
BED TO BE OCCUPIED BY 280' OF AES PIPE (FOUR 70' ROWS) IN ONE SERIAL SECTION
PIPE TO BE LAYED OUT AT 5.5' SPACING W/ BED BEING 23.7' WIDE W/ A 17.2' SAND EXTENSION GOING DOWN SLOPE.

BED TO BE INSTALLED LEVEL WITH 6" OF SYSTEM SAND UNDER PIPE AND 3" OVER PIPE (~12" OF SAND TOTAL).

- *PUMP DESIGN REQUIRED PRIOR TO PERMIT ISSUANCE
- *GRADING INSPECTION REQUIRED PRIOR TO PERMIT ISSUANCE
- *PERMIT APPLICATION REQUIRED PRIOR TO PERMIT ISSUANCE
- *ENGINEER CERTIFICATION & LAOP WILL BE REQUIRED PRIOR TO FINAL SIGN OFF



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THE SEPTIC CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER PRIOR TO INSTALLATION OF ANY SYSTEM COMPONENTS AND COORDINATE NECESSARY INSPECTION(S) BY THE ENGINEER.

FINAL APPROVAL SHALL REQUIRE:

- **WRITTEN CERTIFICATION AND AS BUILT FROM DESIGN ENGINEER**
- **TELEMETRY**
- **COPY OF MAINTENANCE AGREEMENT**
- **OBTAIN AN ANNUAL OPERATING PERMIT**

Approved By: Conner Jordan

Date: 8/22/2025



COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH AND QUALITY
LAND AND WATER QUALITY DIVISION

ONSITE WASTEWATER TREATMENT SYSTEM LAYOUT SUBMITTAL APPLICATION

DEH PROJECT #:

LOWTS - 018332

Layout New Constr.
Existing 4 BR SFD
Proposed 1 BR ADU

SITE LOCATION: 2255 EUCLID AVE	CITY: El Cajon	APN: 512-180-36-00
OWNER NAME: Nick & Anna-Marie Roach	PHONE: 414-698-4072	EMAIL: ricknoach@gmail.com
OWNER MAILING ADDRESS: 3616 Bonita Glen Terr, Bonita CA, 91902		
CONTACT NAME: Nick Parisi	PHONE: 917-903-7312	EMAIL: nick@simplybuildable.com

Is there a lock or gate to access parcel or community? ☐ YES ☒ NO If yes, provide lock/gate code(s):
Are there dogs or animals on the parcel? ☐ YES ☒ NO If yes, special instructions:

NOTICE: All items indicated below are required to be submitted for the application to be deemed complete. Review of the submittal will begin after all required items have been submitted. Please indicate item is included in submittal

SECTION 1 - Required Items for Complete Layout Submittal

- ☒ Professional's name, mailing address, email address, and phone number
- ☒ Type of proposed construction (Ex: Residential, Commercial, Industrial)
- ☒ Scope of work: Residential: ☒ Type of Construction ☒ # Bedrooms
- ☐ Scope of work: Commercial: ☒ Business Type ☒ Volume of Wastewater ☒ Character and Strength of Wastewater
- ☐ Commercial Food Service-location, design, and size of oil/grease interceptor
- ☒ Legal Basis of parcel (map and lot number, plat number, etc.)
- ☒ Vicinity Map; Scale (engineer scale not to exceed 1"=60'); North arrow; Layout does not exceed 11" x 17" paper
- ☒ Property Lines and lot dimensions (provide an over sheet (larger scale allowed) and detail sheet(s) for large parcels)
- ☒ Topographic lines and elevation points (include pad grade, finished floor, septic tank, leach lines, slope arrows, slope range, etc.).
- ☒ Existing and proposed primary and reserve Onsite Wastewater Treatment System (OWTS) tank and dispersal design detail
- ☒ All setback distances are shown on layout
- ☒ All proposed and existing grading; Rock outcroppings; Slopes in excess of 20%
- ☒ All known, recorded easements on or within 20 feet of lot boundaries (open-space, utility, road, waterline, etc.)
- ☒ Identify source of potable water; Location of all public waterlines on or within 20 feet of property and signed water line statement
- ☒ Location of all wells on or within 150 feet of property line; Location of all Public wells within 600 feet of property line
- ☒ Location of drinking water reservoir within 2,500' of property line
- ☒ Location of drainage ways; location of streams, springs, ponds, flood plains, lakes within 200 feet of property line
- ☒ All soils testing information, such as deep borings, test holes, and/or percolation tests, plotted on the design (matches flagged locations in field)
- ☒ Depth to groundwater data and specific method used to determine depth to groundwater
- ☒ Location of all stormwater treatment and retention features
- ☒ Sign-off of layout by local water district or company, if required (Vista Irrigation District, Rincon del Diablo, Yuima, County Service Areas)

SECTION 2 - REQUIRED LAYOUT ITEMS FOR A SUPPLEMENTAL TREATMENT SYSTEM (OWTS-STs)

Note: Include design for dispersal system for reserve areas

- ☐ All Items listed in Section 1
- ☐ List all STS components and show location on parcel
- ☐ Design specifications and configuration for dispersal system for primary and reserve areas
- ☐ GeoFlow worksheet for drip dispersal line (if used)
- ☐ Pump(s) specifications and pump(s) curve; Friction and head loss calculation
- ☐ Control/Alarm Box with telemetric reporting
- ☐ Sizing calculations from the design professional
- ☐ Documentation of the 24-hour emergency storage above the alarm on float(s)

Received

FEB 23 2024

County of San Diego
Dept. of Environmental Health
Land & Water Quality Div.

Notice: The acceptance of this project for submittal does not constitute an approval of the project. Additional items may be required upon completion of the property visit by the field specialist.

I certify that the above checkbox items are provided and shown on the layout and the layout plot plan shows all known easements on the parcel and all public water lines on or within 20 feet of the parcel boundaries. I understand that failure to submit the required application items may cause a delay of the project review until all items required for a full and complete review are submitted.

Property Owner Signature

Nick Parisi
Design Professional Signature

Date

02/14/24

Date

GENERAL NOTES

1. INSTALLING CONTRACTOR TO BE MEET D.E.H. REQUIREMENTS AND SHALL BE PRESBY AES CERTIFIED AND SHALL BE RESPONSIBLE FOR ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT.
2. SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS, PRODUCT INFORMATION, OR THE NEAREST DEALER CONTACT PRESBY ENVIRONMENTAL, INC. 143 AIRPORT ROAD, WHITEFIELD, NH 03598, PHONE 1-800-473-5298 WWW.PRESBYENVIRONMENTAL.COM
3. MINIMUM OF 6" OF MEDIUM TO COARSE SAND, WITH LESS THAN 2% PASSING A # 200 SIEVE, REQUIRED AROUND CIRCUMSTANCE OF ADVANCED ENVIRO-SEPTIC PIPES (SEE DESIGN AND INSTALLATION MANUAL FOR COMPLETE SAND AND FILL SPECIFICATIONS.)
4. UNLESS NOTED OTHERWISE, PRESBY LINES ARE TO BE INSTALLED ON A 6" SAND BED AND 12" SAND FILL AND 3" SAND COVER. 12" NATIVE SOILS TO BE PLACED AT THE TOP LAYER (UNLESS NOTED OTHERWISE).
5. CONTRACTOR IS RESPONSIBLE FOR SAND AND SHALL PROVIDE SAND PURCHASE RECEIPTS (AS REQUIRED BY D.E.H.) AS PROOF SITE SAND MEETS DESIGN CRITERIA.
6. CONTRACTOR TO PROVIDE OWNER WITH CURRENT COUNTY OF SAN DIEGO D.E.H. INSPECTION AND MAINTENANCE REQUIREMENTS AND SCHEDULES.
7. MAINTENANCE: RECOMMEND INSPECTION OF SEPTIC TANKS AT LEAST ONCE EVERY TWO YEARS AND CLEAN IF COMBINED THICKNESS OF SLUDGE AND SCUM EQUALS MORE THAN 1/4 OF THE LIQUID DEPTH INSIDE THE TANK.
8. CONTRACTOR TO VERIFY PROPER ELEVATION DIFFERENTIAL EXISTS BETWEEN LOWER AND UPPER VENTS. SEE PRESBY GUIDELINES
9. SEE PRESBY DESIGN INSTALLATION MANUAL REGARDING PUMP SYSTEM REQUIREMENTS.
10. RECOMMENDATIONS IN PRESBY MANUAL SHALL SUPERSEDE THIS DESIGN SHOULD MANUFACTURERS SPECIFICATIONS BE REVISED.
11. SAN DIEGO COUNTY DEH TO INSPECT INSTALLATION PRIOR TO BACKFILL OF SAN AND COVERING OF TANKS
12. OWNER SHALL CONTRACT A BI-ANNUAL INSPECTIONS BY A CERTIFIED 3RD PARTY AND SUBMIT RESULTS TO THE COUNTY OF SAN DIEGO D.E.H. ALONG WITH AN ANNUAL FEE OF \$410. RECOMMENDED INSPECTOR IS: TOD WALSH (760) 580-5079.
13. THE FUTURE INSTALLATION OF THE PRESBY SYSTEM SHALL HAVE TWO INSPECTIONS BY A CERTIFIED ENGINEER OR REGISTERED ENVIRONMENTAL HEALTH SPECIALIST. RECOMMENDED INSPECTOR IS: TOD WALSH @ (760) 580-5079. INSPECTIONS SHALL OCCUR ONCE DURING CONSTRUCTION AND ONCE AT FINAL.
14. ALL WORK TO CONFORM TO CURRENT CALIFORNIA PLUMBING CODES.
15. DEEP TRENCH REINFORCEMENT AND SLOPING TO MEET ALL CA OSHA REQUIREMENTS
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BEST MANAGEMENT APPLICATIONS FR THE WORK AREA PER COUNTY OF SAN DIEGO GUIDELINES.

PROPOSED SYSTEM:

AN OWTS (PRESBY SYSTEM) FOR 4 BEDROOM RESIDENCE
W/ AREA FOR PRIMARY AND 100% RESERVE
SEE DETAILED CALCULATIONS AND DRAWINGS ATTACHED.
IS 0.356 GPD/FT PER L.A.M.P. WITH A PERCOLATION RATE OF 46 MPI.

PREPARED BY:

SAN DIEGO SEPTIC DESIGN & TESTING
P.O. BOX 3120
ESCONDIDO, CA 92033
PH: (760) 518-5763
sandiegodesigners2@gmail.com

OWNER

NICK & ANNA MARIE ROACH
3616 BONITA GLEN TERRACE
BONITA, CA 91902

LEGAL

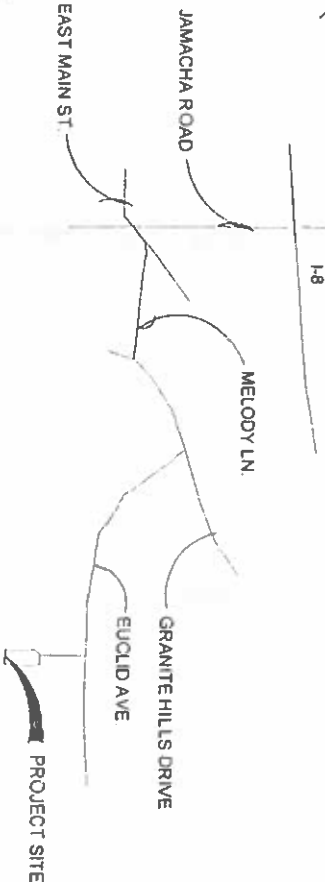
APN 512-130-36-00
2266 EUCLID AVENUE
EL CAJON, CA 92019

I CERTIFY THAT THE
LAYOUT SHOWS ALL
PUBLIC WATERLINES
WITHIN 20 FEET OF THE
LOT BOUNDARIES.

STEVE MURCO DATE 06/08/2024
WATER DISTRICT:
HELIX WATER DISTRICT

VICINITY MAP

NO SCALE



7/14/25

SEPTIC (PRESBY SYSTEM) CALCULATIONS:

SYSTEM CALCULATIONS - PROPOSED RESIDENCE
SEE PRESBY DESIGN AND INSTALLATION MANAL.

STEP #1: SYSTEM SAND BED AREA REQUIRED (SSBA)
FROM TABLE A: (DESIGN FLOW / APPLICATION RATE)
(150 X 4 BDRMS.) = 600 / 0.356 = 1,685 S.F. SSBA

STEP #2: ALLOWABLE SYSTEM SLOPE FROM TABLE D
UP TO 25% SYSTEM NATURAL SLOPE FOR PERC RATE OF 34 MPI
EXISTING SLOPE VARIES 8% TO 11% = OK

STEP #3: MINIMUM AMOUNT OF AES PIPE NEEDED FROM
TABLE C:
70 FT/BR X 4 BR = 280 L.F AES PIPE

STEP #4: MINIMUM OF SERIAL SECTIONS NEEDED
(DESIGN FLOW / 750 GPD)
600 / 750 = 0.8 USE 1

STEP #5: DETERMINE ROW LENGTH AND QUANTITY NEEDED
ROW LENGTH 70' + 1' = 71' BED LENGTH
NUMBER OF ROWS NEEDED = MINIMUM PIPE LENGTH / ROW LENGTH
280 / 70 = 4 ROWS

STEP #6: PIPE LAYOUT WIDTH (PLW)
[(NUMBER OF ROWS -1) X SPACING +1]
PLW = 4 -1 X 1.5 + 1 = 4.5 + 1 = 5.5'

STEP #7: MINIMUM SYSTEM SAND BED WIDTH (SSWB)
SSBA / (ROW LENGTH + 1)

1685 / 71 = 23.7' USE 23.7'

STEP #8: FINAL BED WIDTH REQUIREMENTS: VERIFY SSWB
WILL COVER ALL ROWS: B) BEDS SLOPING > 5% IF THE MINIMUM
SSBW IS LESS THAN THE (PLW + 3.5 FT), USE (PLW +3.5 FT)
AS THE NEW MINIMUM SSBW.
LOT VARIES FROM 8% TO 11%
SSBW = 23.7' > 9.0' USE 23.7'

STEP #9: CALCULATE SYSTEM SAND EXTENSION (SSE):
B) SLOPING BEDS : SSWB - (PLW+1) = (SSE)
23.7' - 6.5' = 17.2'

SEPTIC SYSTEM LAYOUT

OWNER: NICK & ANNA-MARIE ROACH

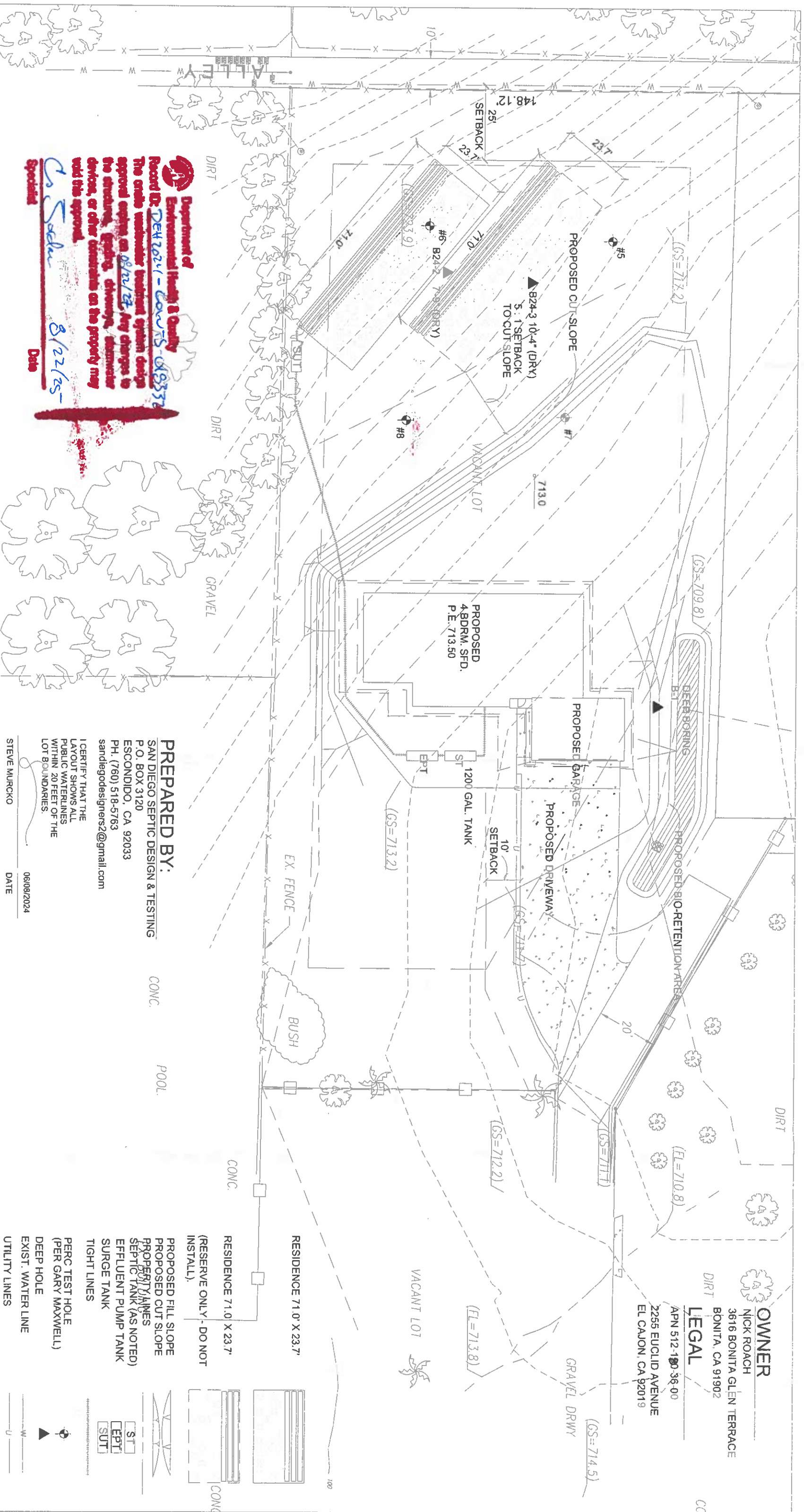
APN 512-130-36-00

PROJECT ADDRESS: 2266 EUCLID AVENUE, EL CAJON CA 92019

PREPARED BY: SAN DIEGO SEPTIC DESIGN & TESTING
P.O.BOX 3120 ESCONDIDO, CA 92033PH: (760) 518-5763
DESIGNER: TODD WALSH REHS 5683 DRAFTER: STEVE MURCO

OWNER
NICK ROACH
3616 BONITA GLEN TERRACE
BONITA, CA 91902

LEGAL
APN 512-130-36-00
2255 EUCLID AVENUE
EL CAJON, CA 92019



Department of Environmental Health & Quality
Record ID: DEH 2024-00015-08337
The onsite wastewater treatment system design approved expires on 08/22/25. Any changes to the structure, grading, driveway, stormwater device, or other constructs on the property may void this approval.
Specialist: C. Seale
Date: 8/22/25

PROPOSED SYSTEM:

AN OWTS (PRESBY SYSTEM) FOR A 4 BEDROOM RESIDENCE
W/ AREA FOR PRIMARY AND 100% RESERVE
SEE DETAILED CALCULATIONS AND DRAWINGS ATTACHED.
IS 0.356 GPD/FT PER L.A.M.P. WITH A PERCOLATION RATE OF 46 MPI.

PREPARED BY:

SAN DIEGO SEPTIC DESIGN & TESTING
P.O. BOX 3120
ESCONDIDO, CA 92033
PH. (760) 518-5763
sandiegodesigners2@gmail.com

I CERTIFY THAT THE
LAYOUT SHOWS ALL
PUBLIC WATERLINES
WITHIN 20 FEET OF THE
LOT BOUNDARIES.

STEVE MURCKO
DATE: 06/08/2024

WATER DISTRICT:
HELIX WATER DISTRICT

SEPTIC LAYOUT

SCALE 1" = 30'



OWTS (PRESBY) SYSTEM LAYOUT

OWNER: NICK & ANNA-MARIE ROACH
PROJECT ADDRESS: PARCEL 36 - 2255 EUCLID AVENUE, EL CAJON CA 92019
PREPARED BY: SAN DIEGO SEPTIC DESIGN & TESTING
P.O. BOX 3120 ESCONDIDO, CA 92033
TODD WALSH REHS 5683
PH. (760) 518-5763
DRAFTED BY: STEVE MURCKO

S2

GRAVITY SYSTEM VENT LOCATIONS

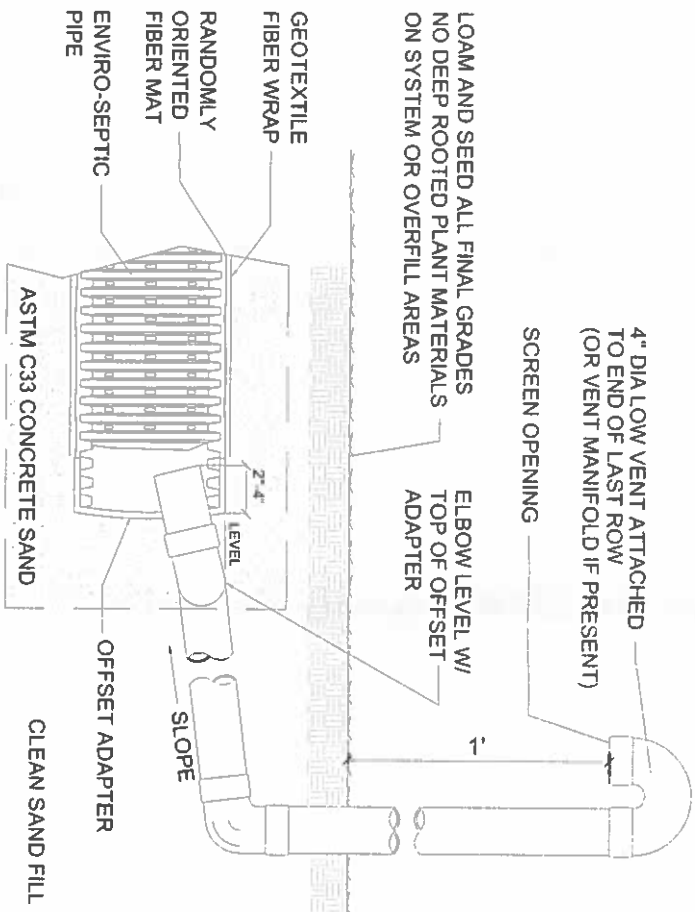
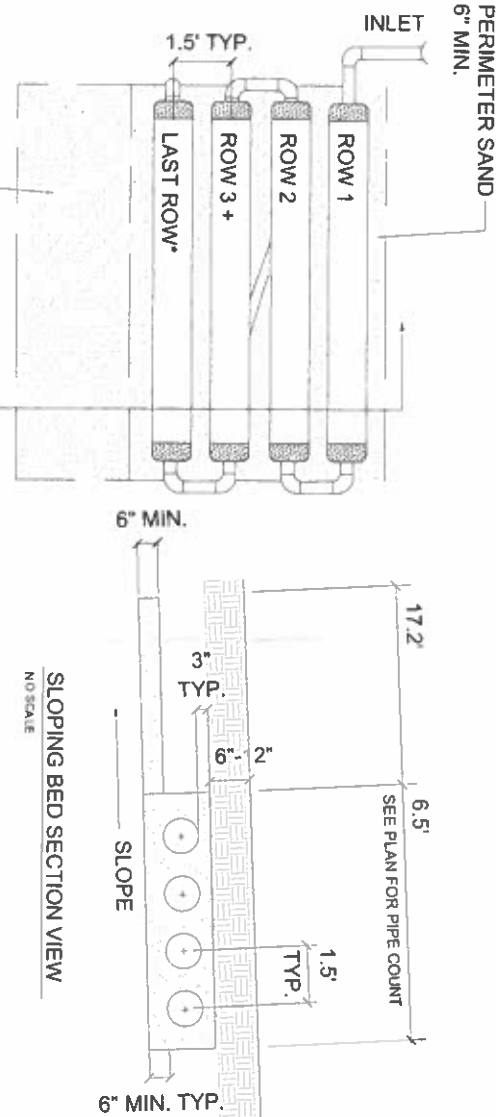
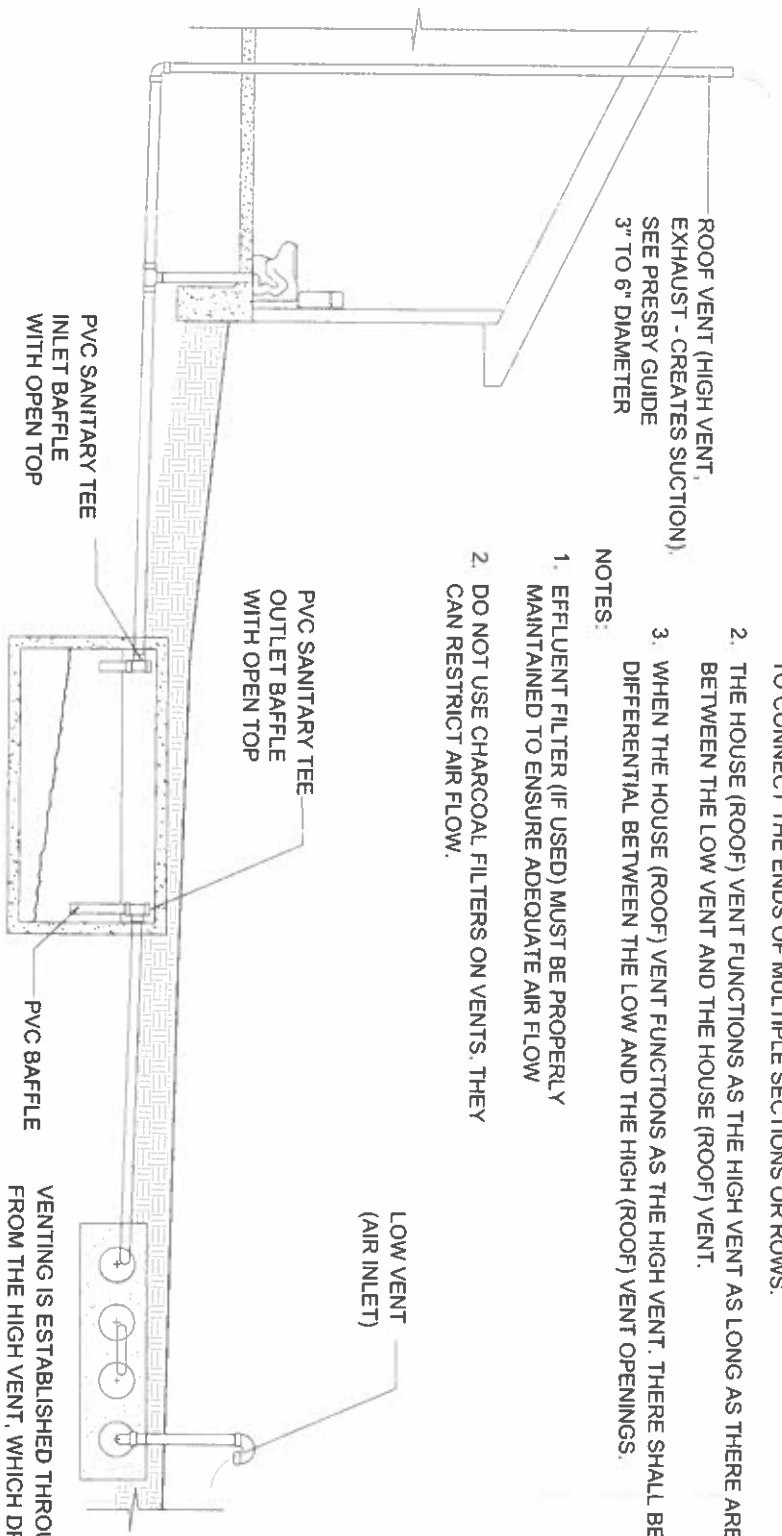
1. A LOW VENT IS INSTALLED AT THE END OF THE ROW OF THE LAST SECTION OR THE END OF THE LAST ROW IN A BASIC SERIAL BED, OR AT THE END OF EACH ROW IN A D-BOX DISTRIBUTION CONFIGURATION SYSTEM. A VENT MANIFOLD MAY BE USED TO CONNECT THE ENDS OF MULTIPLE SECTIONS OR ROWS.
2. THE HOUSE (ROOF) VENT FUNCTIONS AS THE HIGH VENT AS LONG AS THERE ARE NO RESTRICTIONS OR OTHER VENTS BETWEEN THE LOW VENT AND THE HOUSE (ROOF) VENT.
3. WHEN THE HOUSE (ROOF) VENT FUNCTIONS AS THE HIGH VENT, THERE SHALL BE A MINIMUM OF 10 FT VERTICAL DIFFERENTIAL BETWEEN THE LOW AND THE HIGH (ROOF) VENT OPENINGS.

NOTES:

1. EFFLUENT FILTER (IF USED) MUST BE PROPERLY MAINTAINED TO ENSURE ADEQUATE AIR FLOW
2. DO NOT USE CHARCOAL FILTERS ON VENTS. THEY CAN RESTRICT AIR FLOW.

VENTING IS ESTABLISHED THROUGH SUCTION (CHIMNEY EFFECT) CREATED BY THE DRAWING OF AIR FROM THE HIGH VENT, WHICH DRAWS AIR INTO THE LOW VENT AT THE LEACH FIELD THEN THROUGH THE SEPTIC TANK AND EXHAUST THROUGH THE (HIGH) ROOF VENT.

GRAVITY SYSTEM AIRFLOW



AES PIPE SIDE VIEW

SYSTEM DESIGN - IN-GROUND BED SYSTEMS

SLOPING BED

ROWS GROUPED AT HIGH SIDE OF SAND BED AREA
NO SCALE

OWTS (PRESBY) SYSTEM LAYOUT

OWNER: NICK & ANNA-MARIE ROACH
PROJECT ADDRESS: 2256 EUCLID AVENUE, EL CAJON CA 92019
PREPARED BY: SAN DIEGO SEPTIC DESIGN & TESTING
P.O. BOX 3120 ESCONDIDO, CA 92033 PH. (760) 518-5763
DESIGNER: TODD WALSH REHS 5683 DRAFTER: STEVE MURCKO

Dela Vega, Erick

From: Steve Murcko <stevemurcko@yahoo.com>
Sent: Tuesday, July 15, 2025 10:19 AM
To: DEH, LWQ Duty
Cc: Hernandez, Thalia; Steve Merco
Subject: [External] DEH2024-LOWTS-018332 Roach Residence- Resubmittal - Attn Thalia Hernandez
Attachments: Roach Parisi S3.pdf; Roach Parisi S2.pdf; Roach Parisi S1.PDF; Roach Parisi DEH2024-LCSLT-001610.pdf

Follow Up Flag: Follow up
Flag Status: Flagged
Categories: Katelynn, Erick

Resubmittal

Hi Thalia,

Please find our revised layout attached.

Let us know if there is anything more you need from us at this time.

2024.LOWTS.018332 RRR
ATT: Thalia

All the best

Steve Murcko
Steve Murcko & Associates, Inc.
DBA San Diego Septic Design & Testing
P.O. Box 3120
Escondido, CA 92033
Ph. +1 (760) 518-5763



COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH AND QUALITY
LAND AND WATER QUALITY DIVISION

OFFICIAL INSPECTION REPORT

Facility Name/Type: 2255 Euclid Ave. El Cajon CA 92019 /Vacant Lot		APN: 512-18-36-00	Inspection Date: 6/30/2025
Inspection Address or Location: 2255 Euclid Ave.		City: El Cajon	Zip Code: 92019
Owner/Operator Name and Address: Anna-Marie and Nicholas Roach 2255 Euclid Ave. El. Cajon, CA 92019			Phone #: (760) 796-4868
Type of Inspection: <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Consultation <input type="checkbox"/> Reinspection <input type="checkbox"/> Other			
Program: Land Use		Record ID#: DEH2024-LCSLT-001610	
Nature of Complaint/Consultation: The vacant lot on address above has completed a consultation for groundwater monitoring for the proposed Project DEH2024-LOWTS-018332.			
Observations/Comments: Per OWTS PROFESSIONAL Todd Walsh, REHS groundwater monitoring reports and DEHQ Staff, Thalia Hernandez a Supplemental Treatment System is most suitable at higher topographic levels. <div data-bbox="1149 1117 1565 1375" data-label="Image"></div>			
Corrective Actions/Recommendations: Revise layout DEH2024-LOWTS-018332, the Layout re-submittal shall be sent electronically to LWQDuty.DEH@sdcounty.ca.gov or in person at the DEHQ Duty Counter located at 5510 Overland Avenue, Monday to Friday between the hours of 8:00 am and 4:00 pm. Attention to Thalia Hernandez or cc: Thalia.Hernandez@sdcounty.ca.gov .			
Correct By:			
Inspected By: Thalia Hernandez	Phone: (858) 585-1081	Email: Thalia.Hernandez@sdcounty.ca.gov	
Received By: e-mail	Phone:	Email: ricknoach@gmail.com	



COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH AND QUALITY

APPLICATION FOR ENVIRONMENTAL HEALTH LAND USE SPECIALIST CONSULTATION

Requested By: Nicholas & Anna Marie Roach Phone Number: (619) 258-7300

Contact Name: Nicholas Roach Phone Number: (619) 258-7300

Email: Nick@simplybuildable.com

Mailing Address: _____ City: _____ Zip: _____

Property Owner : Nicholas Roach Phone Number: (619) 258-7300

Site Address: 2255 Euclid Avenue City: El Cajon Zip: 92019

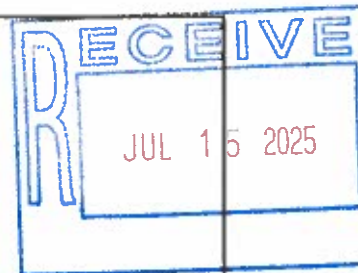
APN: 512-18-36-00

Description and purpose of consultation:

Groundwater monitoring for DEH2024-LOWTS-018332

Special requirements: (locked gates, dogs, difficulty finding location etc.)

n/a



PLEASE ATTACH ANY APPROPRIATE INFORMATION. (PLOT PLAN, AS-BUILTS, ARCHIVE FILE, ETC)

DEH2024-LCSLT #: 001610 Total Hours Paid: 2 Date of Payment: November 7, 2024

Specialist Intake: Thalia Hernandez

*** AREA FOR OFFICE USE ONLY ***

OWNER
NICK ROACH
3616 BONITA GLEN TERRACE
BONITA, CA 91902

LEGAL
APN 512-130-86-00
2255 EUCLID AVENUE
EL CAJON, CA 92019

PREPARED BY: 714.5
SAN DIEGO SEPTIC DESIGN & TESTING
P.O. BOX 3120
ESCONDIDO, CA 92033
PH. (760) 518-5763
sandiegodesigners2@gmail.com

I CERTIFY THAT THE
LAYOUT SHOWS ALL
PUBLIC WATERLINES
WITHIN 20 FEET OF THE
LOT BOUNDARIES.

STEVE MURCKO
DATE 06/08/2024

VACANT WATER DISTRICT

HELIX WATER DISTRICT

RESIDENCE 71'-0" X 17'-4"

RESIDENCE 71'-0" X 17'-4"

(RESERVE ONLY - DO NOT
INSTALL)

PROPOSED FILL SLOPE
PROPOSED CUT SLOPE

PROPERTY LINES
SEPTIC TANK (AS NOTED)
EFFLUENT PUMP TANK
SURGE TANK

TIGHT LINES

PERC TEST HOLE
(PER GARY MAXWELL)

DEEP HOLE

EXIST. WATER LINE

UTILITY LINES

ST
EPT
SUT

OWTS (PRESBY) SYSTEM LAYOUT

OWNER: NICK & ANNA-MARIE ROACH

APN 512-130-86-00

PROJECT ADDRESS: PARCEL 36 - 2255 EUCLID AVENUE, EL CAJON CA 92019

PREPARED BY: SAN DIEGO SEPTIC DESIGN & TESTING
P.O. BOX 3120 ESCONDIDO, CA 92033
DRAFTED BY: STEVE MURCKO

SCALE 1" = 30'

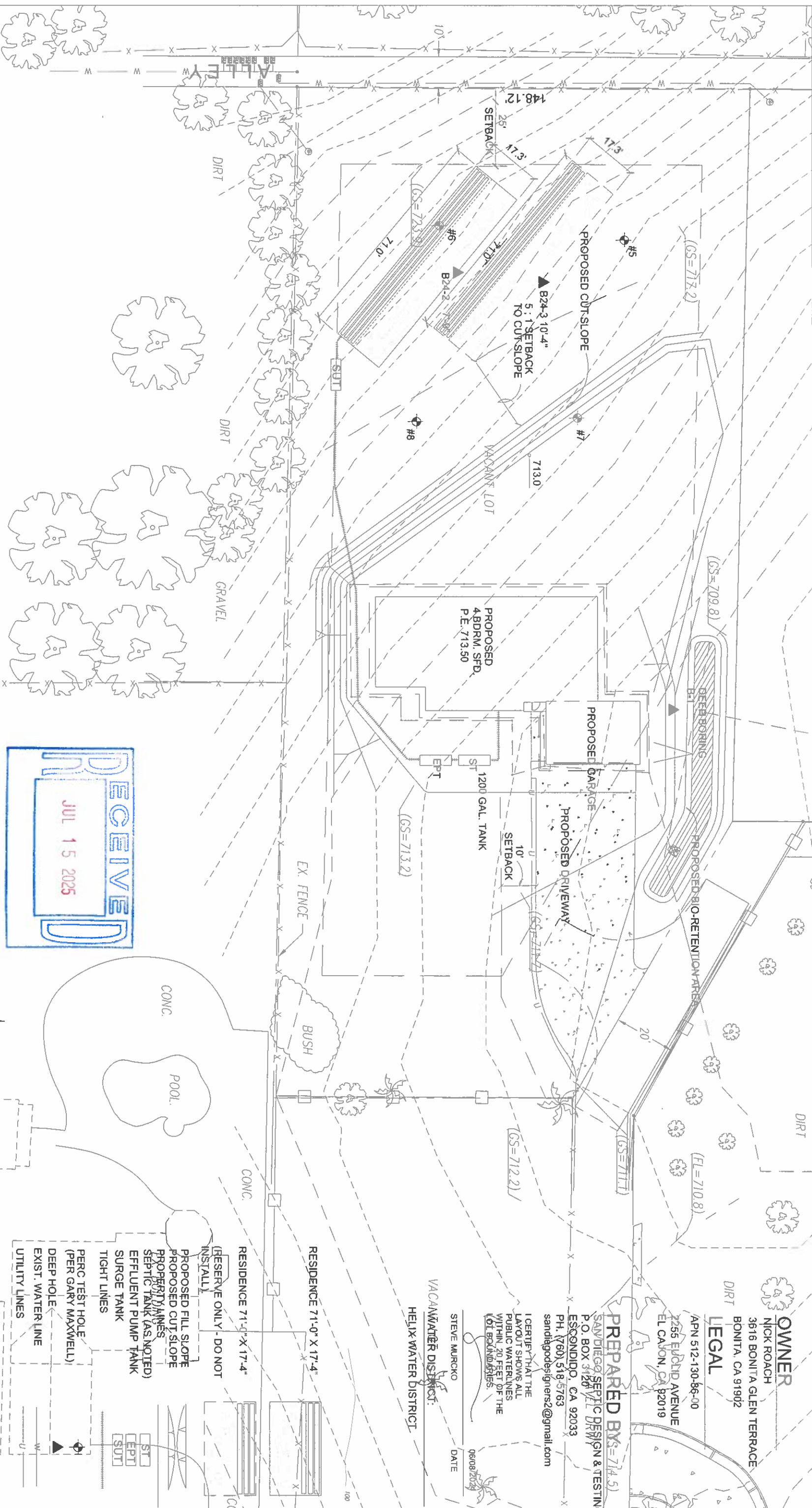
0' 15' 30' 60'

SEPTIC LAYOUT



PROPOSED SYSTEM:

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W/ AREA FOR PRIMARY AND 100% RESERVE
SEE DETAILED CALCULATIONS AND DRAWINGS ATTACHED.
IS 0.489 GPD/FT PER L.A.M.P. WITH A PERCOLATION RATE OF 34 MPL.



[illegible]

LOWITS #	LOWITS-01P332	OWNER/IN	ROAD	APR	52-1P4-36
LOWITS PROFESSIONAL	TODD WALSH	REHS		SITE	24-55
					EW: Ld Ave
					GATE CODE:

[illegible]

270

Hernandez-Esquer, Katelynn G

From: Steve Murcko <stevemurcko@yahoo.com>
Sent: Friday, May 9, 2025 6:15 PM
To: Hernandez, Thalia; DEH, LWQ Duty; Steve Merco
Subject: [External] DEH2024-LCSLT-001611 - Parisi-Roach
Attachments: RoachMonitoring.PDF

Categories: Katelynn, Erick

Hi Thalia,

Please find attached the groundwater monitoring inspected by Todd Walsh REHS.
There was no water present in any of the holes.
We would like to proceed with the Presby systems as designed.
Please contact me or Todd with any questions.

Thank you

Steve Murcko
Steve Murcko & Associates, Inc
DBA San Diego Septic Design & Testing
P.O. Box 3120
Escondido, CA 92033
Ph. +1 (760) 518-5763



GENERAL NOTES

1. INSTALLING CONTRACTOR TO BE MEET D.E.H. REQUIREMENTS AND SHALL BE RESPONSIBLE FOR ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT.
2. SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS, PRODUCT INFORMATION, OR THE NEAREST DEALER CONTACT PRESBY ENVIRONMENTAL, INC. 143 AIRPORT ROAD, WHITEFIELD, NH 03598, PHONE 1-800-473-5298 WWW.PRESBYENVIRONMENTAL.COM
3. MINIMUM OF 6" OF MEDIUM TO COARSE SAND, WITH LESS THAN 2% PASSING A # 200 SIEVE, REQUIRED AROUND CIRCUMSTANCE OF ADVANCED ENVIRO-SEPTIC PIPES (SEE DESIGN AND INSTALLATION MANUAL FOR COMPLETE SAND AND FILL SPECIFICATIONS)
4. UNLESS NOTED OTHERWISE, PRESBY LINES ARE TO BE INSTALLED ON A 6" SAND BED AND 12" SAND FILL AND 3" SAND COVER, 12" NATIVE SOILS TO BE PLACED AT THE TOP LAYER (UNLESS NOTED OTHERWISE)
5. CONTRACTOR IS RESPONSIBLE FOR SAND AND SHALL PROVIDE SAND PURCHASE RECEIPTS (AS REQUIRED BY D.E.H.) AS PROOF SITE SAND MEETS DESIGN CRITERIA
6. CONTRACTOR TO PROVIDE OWNER WITH CURRENT COUNTY OF SAN DIEGO D.E.H. INSPECTION AND MAINTENANCE REQUIREMENTS AND SCHEDULES
7. MAINTENANCE RECOMMEND INSPECTION OF SEPTIC TANKS AT LEAST ONCE EVERY TWO YEARS AND CLEAN IF COMBINED THICKNESS OF SLUDGE AND SCUM EQUALS MORE THAN 1/4 OF THE LIQUID DEPTH INSIDE THE TANK
8. CONTRACTOR TO VERIFY PROPER ELEVATION DIFFERENTIAL EXISTS BETWEEN LOWER AND UPPER VENTS, SEE PRESBY GUIDELINES
9. SEE PRESBY DESIGN INSTALLATION MANUAL REGARDING PUMP SYSTEM REQUIREMENTS.
10. RECOMMENDATIONS IN PRESBY MANUAL SHALL SUPERSEDE THIS DESIGN SHOULD MANUFACTURERS SPECIFICATIONS BE REVISED.
11. SAN DIEGO COUNTY DEH TO INSPECT INSTALLATION PRIOR TO BACKFILL OF SAN AND COVERING OF TANKS.
12. OWNER SHALL CONTRACT A BI-ANNUAL INSPECTIONS BY A CERTIFIED 3RD PARTY AND SUBMIT RESULTS TO THE COUNTY OF SAN DIEGO D.E.H. ALONG WITH AN ANNUAL FEE OF \$410. RECOMMENDED INSPECTOR IS: TODD WALSH (760) 580-5079.
13. THE FUTURE INSTALLATION OF THE PRESBY SYSTEM SHALL HAVE TWO INSPECTIONS BY A CERTIFIED ENGINEER OR REGISTERED ENVIRONMENTAL HEALTH SPECIALIST. RECOMMENDED INSPECTOR IS: TODD WALSH @ (760) 580-5079. INSPECTIONS SHALL OCCUR ONCE DURING CONSTRUCTION AND ONCE AT FINAL.
14. ALL WORK TO CONFORM TO CURRENT CALIFORNIA PLUMBING CODES.
15. DEEP TRENCH REINFORCEMENT AND SLOPING TO MEET ALL CA OSHA REQUIREMENTS
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BEST MANAGEMENT APPLICATIONS FR THE WORK AREA PER COUNTY OF SAN DIEGO GUIDELINES.

SEPTIC (PRESBY SYSTEM) CALCULATIONS:

- SYSTEM CALCULATIONS - PROPOSED RESIDENCE
SEE PRESBY DESIGN AND INSTALLATION MANAL.
- STEP #1: SYSTEM SAND BED AREA REQUIRED (SSBA)
FROM TABLE A: (DESIGN FLOW / APPLICATION RATE)
(150 X 4 BDRMS.) = 600 / 0.489 = 1,227 S.F. SSB A
- STEP #2: ALLOWABLE SYSTEM SLOPE FROM TABLE D:
UP TO 25% SYSTEM NATURAL SLOPE FOR PERC RATE OF 34 MPI
EXISTING SLOPE VARIES 8% TO 11% = OK
- STEP #3: MINIMUM AMOUNT OF AES PIPE NEEDED FROM
TABLE C:
70 FT/BR X 4 BR = 280 L.F AES PIPE
- STEP #4: MINIMUM OF SERIAL SECTIONS NEEDED
(DESIGN FLOW / 750 GPD)
600 / 750 = 0.8 USE 1
- STEP #5: DETERMINE ROW LENGTH AND QUANTITY NEEDED
ROW LENGTH 70' + 1' = 71' BED LENGTH
NUMBER OF ROWS NEEDED = MINIMUM PIPE LENGTH / ROW LENGTH
280 / 70 = 4 ROWS
- STEP #6: PIPE LAYOUT WIDTH (PLW)
[(NUMBER OF ROWS -1) X SPACING +1]
PLW = 4 -1 X 1.5 + 1 = 4.5 + 1 = 5.5'
- STEP #7: MINIMUM SYSTEM SAND BED WIDTH (SSWB)
SSBA / (ROW LENGTH + 1)
1227 / 71 = 17.3' USE 17.3'
- STEP #8: FINAL BED WIDTH REQUIREMENTS: VERIFY SSWB
WILL COVER ALL ROWS: B) BEDS SLOPING > 5% IF THE MINIMUM
SSBW IS LESS THAN THE (PLW + 3.5 FT), USE (PLW +3.5 FT)
AS THE NEW MINIMUM SSBW.
LOT VARIES FROM 8% TO 11%
SSBW = 17.3' > 9.0' USE 17.3'
- STEP #9: CALCULATE SYSTEM SAND EXTENSION (SSE):
B) SLOPING BEDS : SSWB - (PLW+1) = (SSE)
17.3' - 6.5' = 10.8'

PROPOSED SYSTEM:

AN OWTS (PRESBY SYSTEM) FOR A 4 BEDROOM RESIDENCE
W/ AREA FOR PRIMARY AND 100% RESERVE
SEE DETAILED CALCULATIONS AND DRAWINGS ATTACHED
IS 0.489 GPD/FT PER L.A.M.P. WITH A PERCOLATION RATE OF 34 MPI

PREPARED BY:

SAN DIEGO SEPTIC DESIGN & TESTING
P.O. BOX 3120
ESCONDIDO, CA. 92033
PH. (760) 518-5763
sandiegodesigners2@gmail.com

OWNER

NICK & ANNA MARIE ROACH
3616 BONITA GLEN TERRACE
BONITA, CA 91902

LEGAL

APN 512-130-86-00
2255 EUCLID AVENUE
EL CAJON, CA 92019

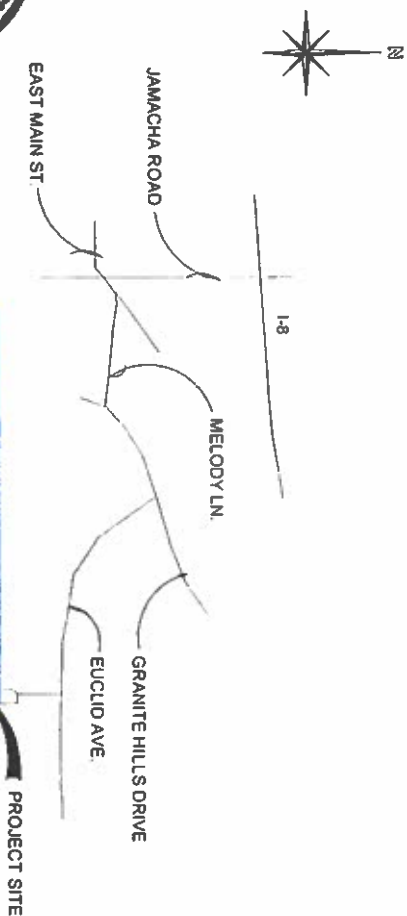
I CERTIFY THAT THE
LAYOUT SHOWS ALL
PUBLIC WATERLINES
WITHIN 20 FEET OF THE
LOT BOUNDARIES

STEVE MURCKO
DATE 06/08/2024

WATER DISTRICT:
HELIX WATER DISTRICT

VICINITY MAP

NO SCALE



7/14/25

SEPTIC SYSTEM LAYOUT

OWNER: NICK & ANNA-MARIE ROACH	APN 512-130-86-00
PROJECT ADDRESS: 2255 EUCLID AVENUE, EL CAJON CA 92019	
PREPARED BY: SAN DIEGO SEPTIC DESIGN & TESTING P.O. BOX 3120 ESCONDIDO, CA 92033PH. (760) 518-5763 DESIGNER: TODD WALSH RSHS 3663 DRAFTER: STEVE MURCKO	S1

OWNER
NICK ROACH
3616 BONITA GLEN TERRACE
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SAN DIEGO SEPTIC DESIGN & TESTING

P.O. BOX 3120
ESCONDIDO, CA 92033
PH. (760) 518-5763
sandiegodesigners2@gmail.com

I CERTIFY THAT THE LAYOUT SHOWS ALL PUBLIC WATERLINES WITHIN 20 FEET OF THE LOT BOUNDARIES.

STEVE MURCKO	06/08/2024
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WATER DISTRICT:

HELIX WATER DISTRICT

SCALE 1" = 30'

OWNER: NICK & ANNA-MARIE ROACH

OWNER: NICK & ANNA-MARIE KOACH APN 512-130-86-0

PROJECT ADDRESS: PARCEL 36 - 2255 EUCLID AVENUE, EL CAJON CA 92019

PREPARED BY: SAN DIEGO SEPTIC DESIGN & TESTING PH. (760) 518-5763
P.O. BOX 3120 ESCONDIDO, CA 92033
TODD WALSH RESH 5683 DRAFTED BY: STEVE MURKO

RESIDENCE 71'-0" X 17'-4"

(RESERVE ONLY - DO NOT INSTALL).

PROPOSED FILL SLOPE

PROPOSED CUT SLOPE

PROPERTY LINES

4" POLYDIO

SEPTIC TANK (AS NOTED)

EFFLUENT PUMP TANK

SURGE TANK

TIGHT LINES

PERC TEST HOLE
(PER GARY MAXWELL)

DEEP HOLE

EXIST. WATER LINE

UTILITY LINES

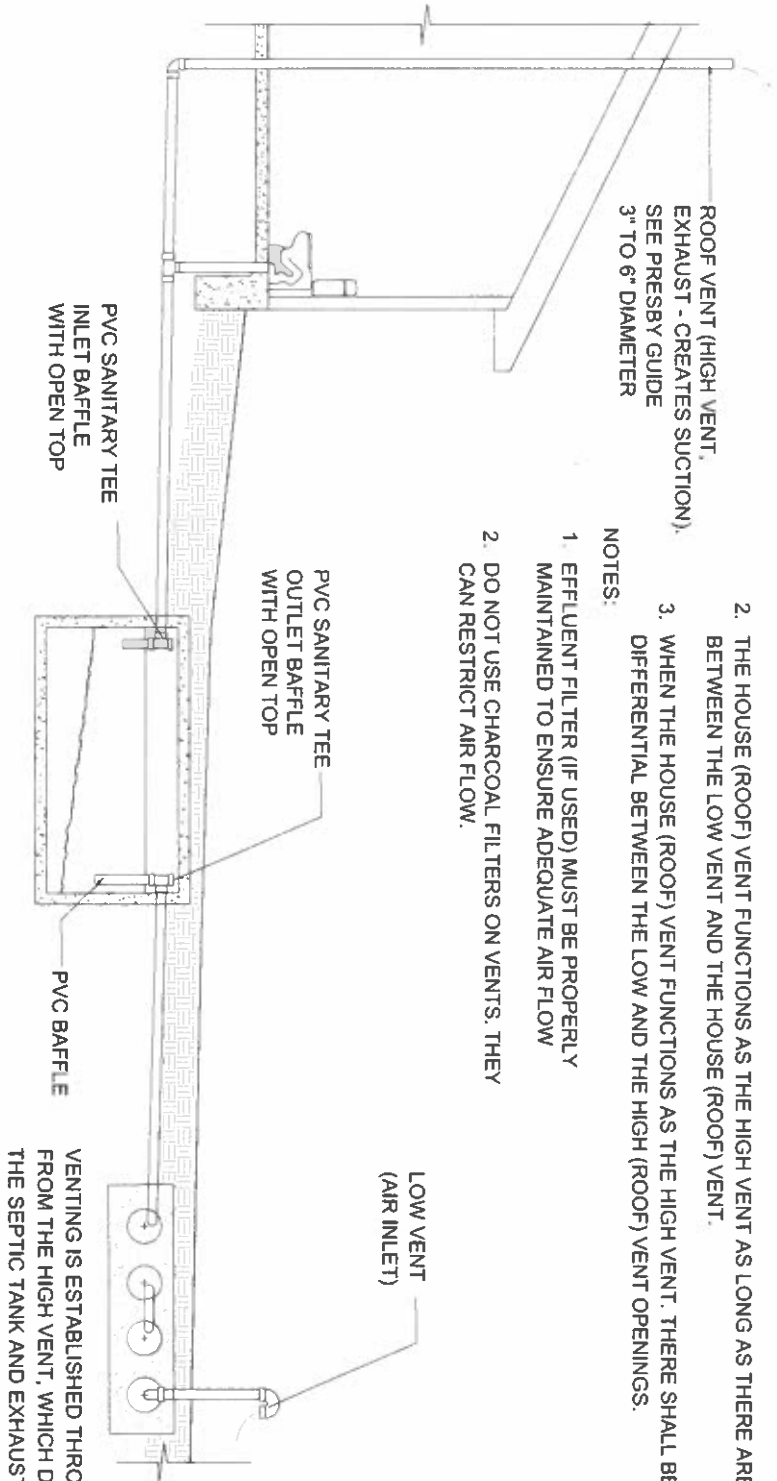
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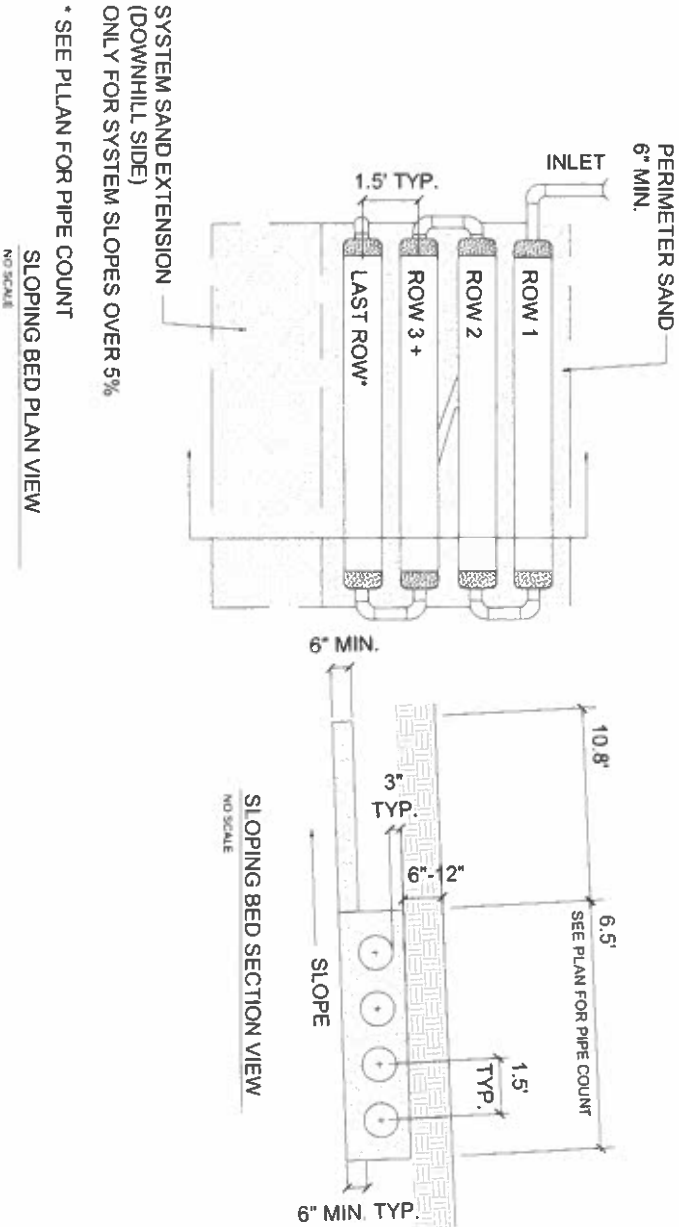
GRAVITY SYSTEM VENT LOCATIONS

- 1. A LOW VENT IS INSTALLED AT THE END OF THE ROW OF THE LAST SECTION OR THE END OF THE LAST ROW IN A BASIC SERIAL BED, OR AT THE END OF EACH ROW IN A D-BOX DISTRIBUTION CONFIGURATION SYSTEM. A VENT MANIFOLD MAY BE USED TO CONNECT THE ENDS OF MULTIPLE SECTIONS OR ROWS.
 - 2. THE HOUSE (ROOF) VENT FUNCTIONS AS THE HIGH VENT AS LONG AS THERE ARE NO RESTRICTIONS OR OTHER VENTS BETWEEN THE LOW VENT AND THE HOUSE (ROOF) VENT.
 - 3. WHEN THE HOUSE (ROOF) VENT FUNCTIONS AS THE HIGH VENT, THERE SHALL BE A MINIMUM OF 10 FT VERTICAL DIFFERENTIAL BETWEEN THE LOW AND THE HIGH (ROOF) VENT OPENINGS.
- NOTES:
- 1. EFFLUENT FILTER (IF USED) MUST BE PROPERLY MAINTAINED TO ENSURE ADEQUATE AIR FLOW
 - 2. DO NOT USE CHARCOAL FILTERS ON VENTS. THEY CAN RESTRICT AIR FLOW.



GRAVITY SYSTEM AIRFLOW

VENTING IS ESTABLISHED THROUGH SUCTION (CHIMNEY EFFECT) CREATED BY THE DRAWING OF AIR FROM THE HIGH VENT, WHICH DRAWS AIR INTO THE LOW VENT AT THE LEACH FIELD THEN THROUGH THE SEPTIC TANK AND EXHAUST THROUGH THE (HIGH) ROOF VENT.

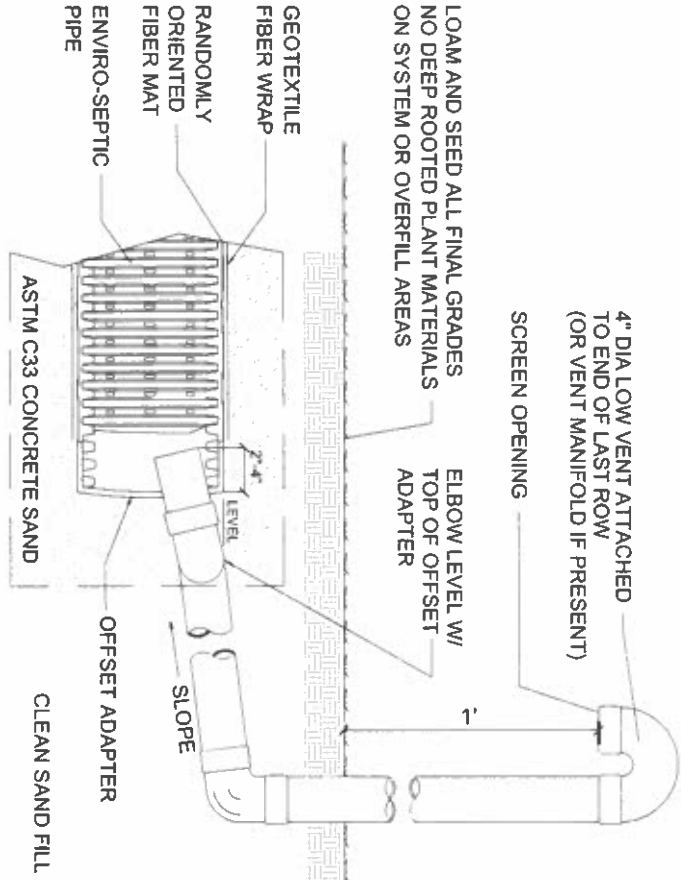


SYSTEM DESIGN - IN-GROUND BED SYSTEMS

SLOPING BED

ROWS GROUPED AT HIGH SIDE OF SAND BED AREA
NO SCALE

AES PIPE SIDE VIEW



OWTS (PRESBY) SYSTEM LAYOUT

OWNER: NICK & ANNA-MARIE ROACH	APN 512-130-86-00
PROJECT ADDRESS: 2255 EUCLID AVENUE, EL CAJON CA 92019	
PREPARED BY: SAN DIEGO SEPTIC DESIGN & TESTING P.O. BOX 3120 ESCONDIDO, CA 92033 PH. (760) 518-5763 DESIGNER: TODD WALSH REHS 5683 DRAFTER: STEVE MURCKO	



COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
PERCOLATION TEST REPORT

PAR. 4

DEH Control #: _____
Date: 4-10-2022
Activity Code: _____

Assessor's Parcel Number: 512-180-36-00 Map # pm 2452 Lot # PAR 4
Site Address So. of 2265 Euclid Ave. Town: EL CAJON Zip Code: _____
Owner: NICHOLASE Anna Marie Roach Phone: 414-698-4072
Mailing Address: 1843 Ellendale Dr., Northbrook, FL 33462 Rick.Noach@gmail.com

Test Hole #	Test Depth	Stabilized Rate mpi	Test Hole #	Test Depth	Stabilized Rate	Average Perc Rate
#5	3'	15				34 mpi
#6	3'	30				
#7	4'	44				
#8	4'	46				

B-1 21' Dry w/ pipe

Vertical seepage pits: Provide soils log, uniformity/capacity test results, and calculations on separate 8-1/2" x 11" sheets of paper

TYPE OF SOIL: (clay, silt, sand, decomposed granite, etc.)

Surface: Bm. silty sand w/ clay

1-3 ft. below surface: brown silty sand w/ clay

3-5 ft. below surface: silty sand w/ clay to silty sand (tan)

5-8 ft. below surface: silty sand to decomposed granite

8-21 ft. below surface: tan silty sand / b.o.

Depth to Refusal: Random rock Depth to Groundwater: > 21 ft.

RECOMMENDATIONS:

Septic Tank: 1200-1500 gal Pump Chamber: 1200 gal Surge Tank: 400 gal

Leach Line Length: 490 ft Seepage Pit Type: _____ Number of Pits: _____

Trench Depth: 4.0 ft Length: NA ft Width: NA ft

Rock below Pipe: 24 in Total Depth: _____ ft Cap Depth: _____ ft

Other: "Infiltrator" okay @ 4.0'

Proposed Structure: 4BR SFD. w/ POSSIBLE 1BR "ADU"
1BR "ADU" @ 34 mpi = 290' + 100%

WATER SUPPLY:

Source of Potable Water: Helix Water District Well Permit Number: _____

I have reviewed this percolation data and design of the subsurface sewage disposal system for this parcel and find the data and design to be accurate and in compliance with state and local regulations, and good engineering practice.

Registered CE, PE, Geologist, REHS: GARY C. MAXWELL, REHS 3962 *[Signature]*

Address: PO Box 836, Alpine 91903 Phone: 619-722-6057 Date: 4-10-2022

FOR DEPARTMENT USE ONLY

Approved: Yes ___ No ___ Date: _____

Specialist: _____

Building Plan Review: _____

Grading Inspection: _____

Water Sample Analysis Results: _____

Final Map Required: Yes ___ No ___

Date: _____

Date: _____

Date: _____

NICHOLAS & ANNA MARIE ROACH (414) 498-4072

Rick Noach@gmail.com

EUCALID AVE., EUCALID, CA

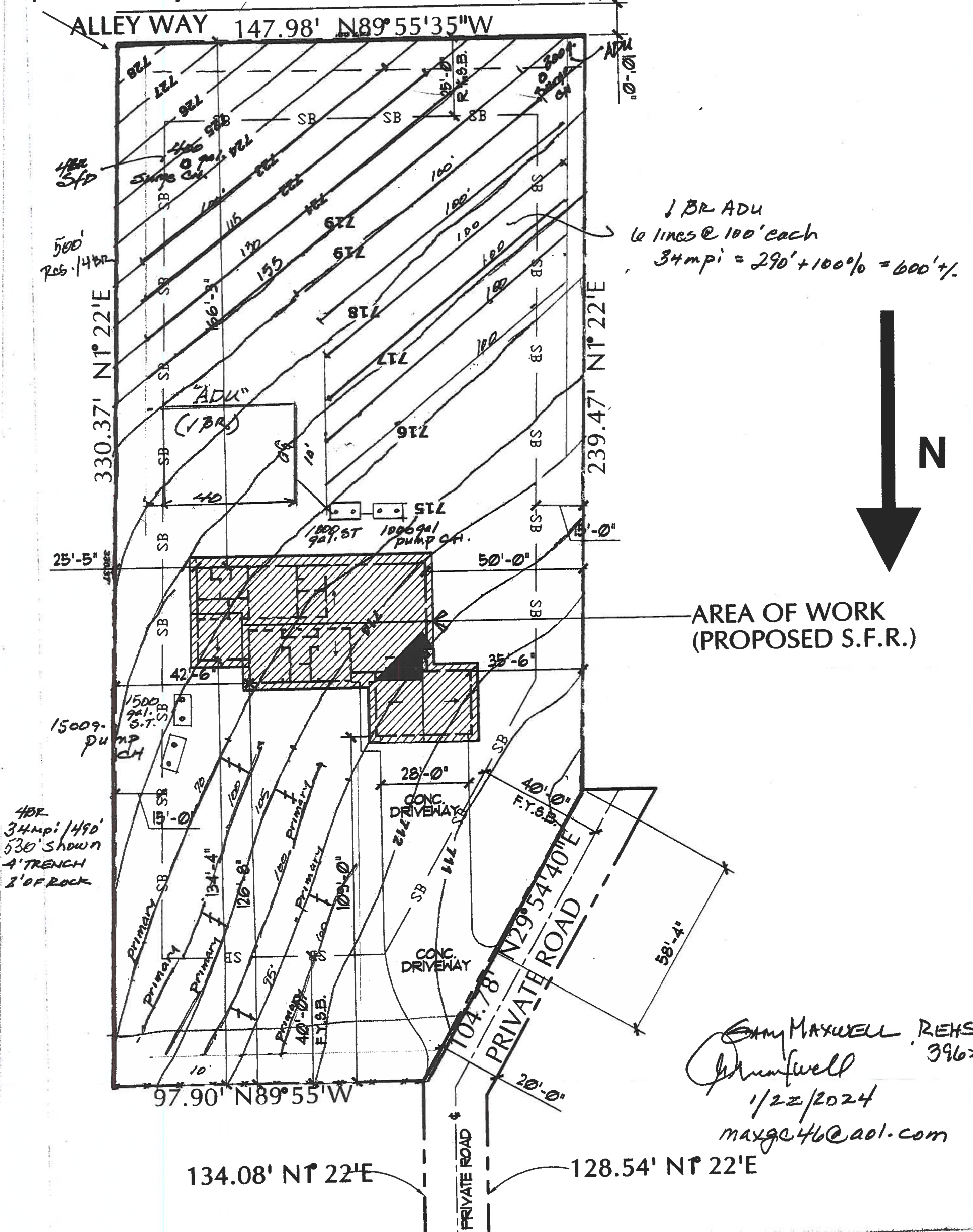
1" = 30'

APN: 512-180-36-00

SCALE

Proposed water/utility

Revised Septic Layout



* Matches building plans seen 2/23/24 @ city counter.
- B. Coley

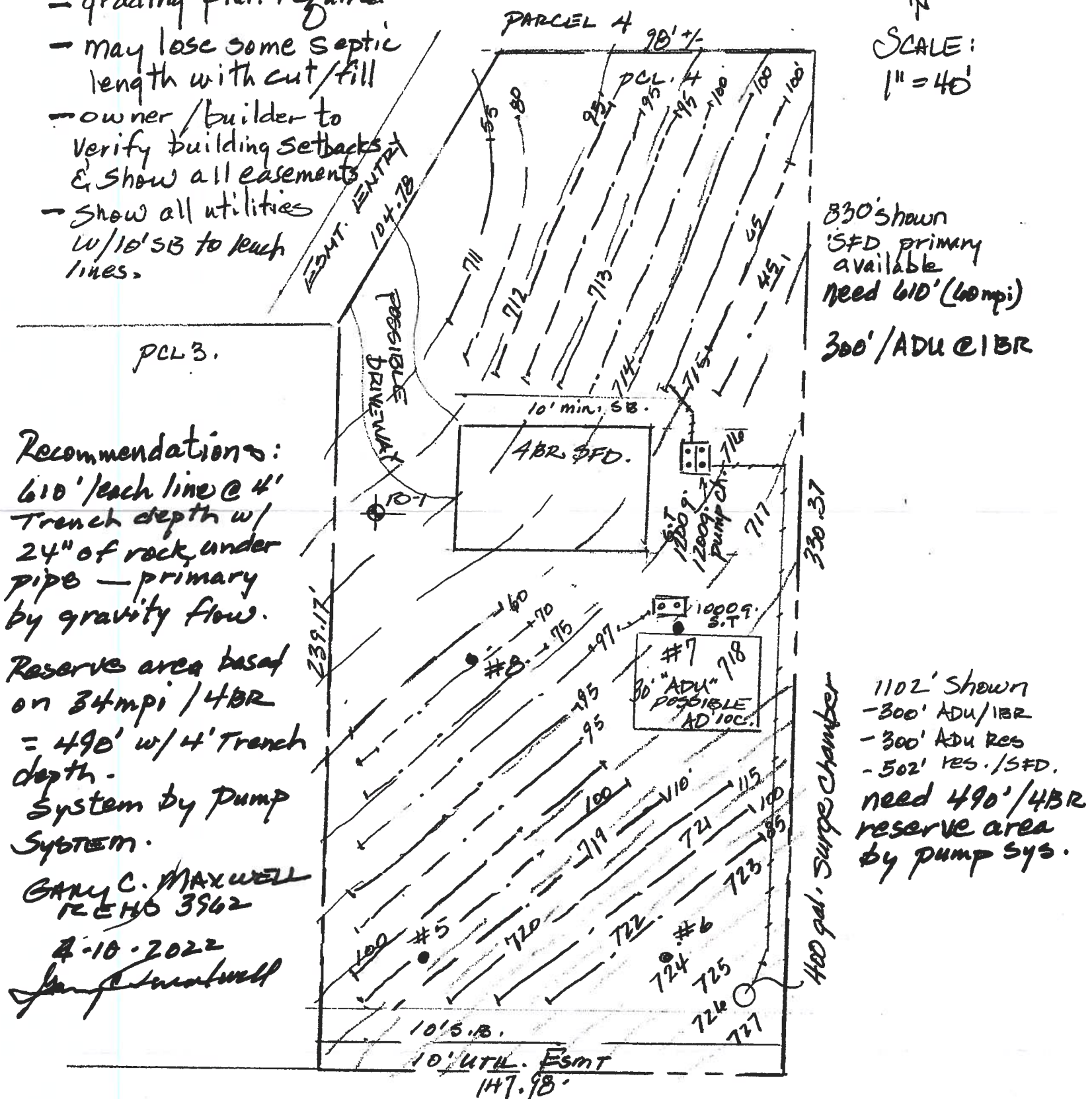
NICHOLAS A. ROACH
 Anna Marie Roach
 C. 414-698-4072
 APN: 512-180-35436
 SEPTIC Concept Only
 PAR 4

NOTES:
 PARCEL MAP NO. 2652
 APN: 512-180-35,36
 Septic Cert. 400' / 3BR

email: Rick.noach@gmail.com

- grading plan required
- may lose some septic length with cut/fill
- owner / builder to verify building setbacks & show all easements
- show all utilities w/ 10' SB to reach lines.

SCALE:
 1" = 40'



Recommendations:
 610' / each line @ 4'
 Trench depth w/
 24" of rock under
 pipe - primary
 by gravity flow.

Reserve area based
 on 34mp / 4BR
 = 490' w/ 4' Trench
 depth.
 System by Pump
 System.

GARY C. MAXWELL
 REHS 3962

4-10-2022

Jan. 1. 2022