REPORT OF PERCOLATION FEASIBILITY STUDY
PRPOSED ONSITE WASTEWATER TREATMEN SYSTEM
80526 AMBOY ROAD
CITY OF TWENTYNINE PALMS
SAN BERNARDINO COUNTY, CA 92277

PROJECT NO.: 904-13
REPORT NO.: 1

MARCH 15, 2024

SUBMITTED TO:

DEPARTMENT OF PUBLIC WORKS, SPECIAL DISTRICTS
222 W. HOSPITALITY LANE, 2nd FLOOR
SAN BERNARDINO, CA 92415

PREPARED BY:

HILLTOP GEOTECHNICAL, INC.
786 SOUTH GIFFORD AVENUE
SAN BERNARDINO, CA 92408

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HILLTOP GEOTECHNICAL
INCORPORATED

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Phone **909-890-9079** • FAX 909-890-9055
hilltopg@hgeotech.com

March 15, 2024

Department of Public Works, Special Districts
Attn: Mr. Alfonso Fausto
222 W. Hospitality Lane, 2nd Floor
San Bernardino, CA 92415

Project No.: 904-13
Report No.: 1

Subject: **Report of Percolation Feasibility Study, Proposed Onsite Wastewater Treatment Systems, 80526 Amboy Road, City of Twentynine Palms, San Bernardino County, CA 92277.**

References:
1. **San Bernardino County Public Health Environmental Health Services**, *Percolation Testing and Reporting Standards for Onsite Wastewater Treatment Systems, Revised September 2019.*
2. **BOA Architecture**, *Wonder Valley Community Center Renovation, 80526-1/2 Amboy Road, Twentynine Palms, CA 92277. 02/08/2024.*

Mr. Fausto:

In accordance with your request, we have completed the percolation feasibility study including seepage pit percolation testing in the vicinity of the proposed new septic system to accommodate the proposed community center renovation at the subject site. This testing was performed in general accordance with the Percolation Testing and Reporting Standards for Onsite Wastewater Treatment Systems (OWTS) (revised September 2019) issued by the San Bernardino County Department of Environmental Health (DEHS). A percolation feasibility report is included herein and follows the general format of the San Bernardino County Department of Health Services for percolation testing.

The percolation feasibility study indicates that the proposed OWTS at the subject

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site is feasible from a geotechnical engineering viewpoint provided recommendations presented herein are incorporated into project design and implemented during the project construction.

We appreciate the opportunity to be of service on this project. If you have any questions, please call this office at your convenience.

Respectfully submitted,
HILLTOP GEOTECHNICAL, INC.

S. Mack Chen, P.E. C76834, C.E.G. 2688
Principal Engineer/Geologist

Distribution: (1) Addressee
pdf Copy Via E-Mail
Mr. Alfonso Fausto (Alfonso.fausto@sdd.sbcounty.gov)

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Commercial Onsite Wastewater Treatment System (OWTS) Certification

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REPORT OF PERCOLATION FEASIBILITY STUDY
PROPOSED OWTS
80526 AMBOY ROAD
CITY OF TWENTYNINE PALMS
SAN BERNARDINO COUNTY, CA 92277

1.0 DESCRIPTION OF SITE

1.1 Date/Individual that was notified of testing:

A percolation test notification form was filled out and submitted to the County of San Bernardino Department of Public Health (DEHS) prior to percolation testing. Seepage pit drilling was conducted on February 15, 2024, and Pre-soaking and percolation testing was performed on February 16 and 19, 2024.

1.2 Prepared for:

This report was prepared for Department of Public Works, Special Districts, 222 W. Hospitality Lane, 2nd Floor, San Bernardino, CA 92415.

1.3 Location of Land:

80526 Amboy Road, City of Twentynine Palms. A site location map, Figure No. 1, is attached for reference.

1.4 Proposed Development:

a) Type of Project: proposed community center renovation.

b) Acreage: The subject site consists of approximately 10 acres.

c) Type of Disposal: The subsurface sewage disposal systems proposed for use on the site consist of one existing conventional septic tank connected to a seepage pit and one new conventional septic tank connected to a seepage pit.

d) Grading: No grading is anticipated at the proposed OWTS area.

1.5 Description of Site and Surroundings:

a) Topography: The project area was located on a relatively flat area. The project site has an approximate slope of less than 2% sloping down to the south.

b) Watercourses: No stream courses are located within 200 feet of the

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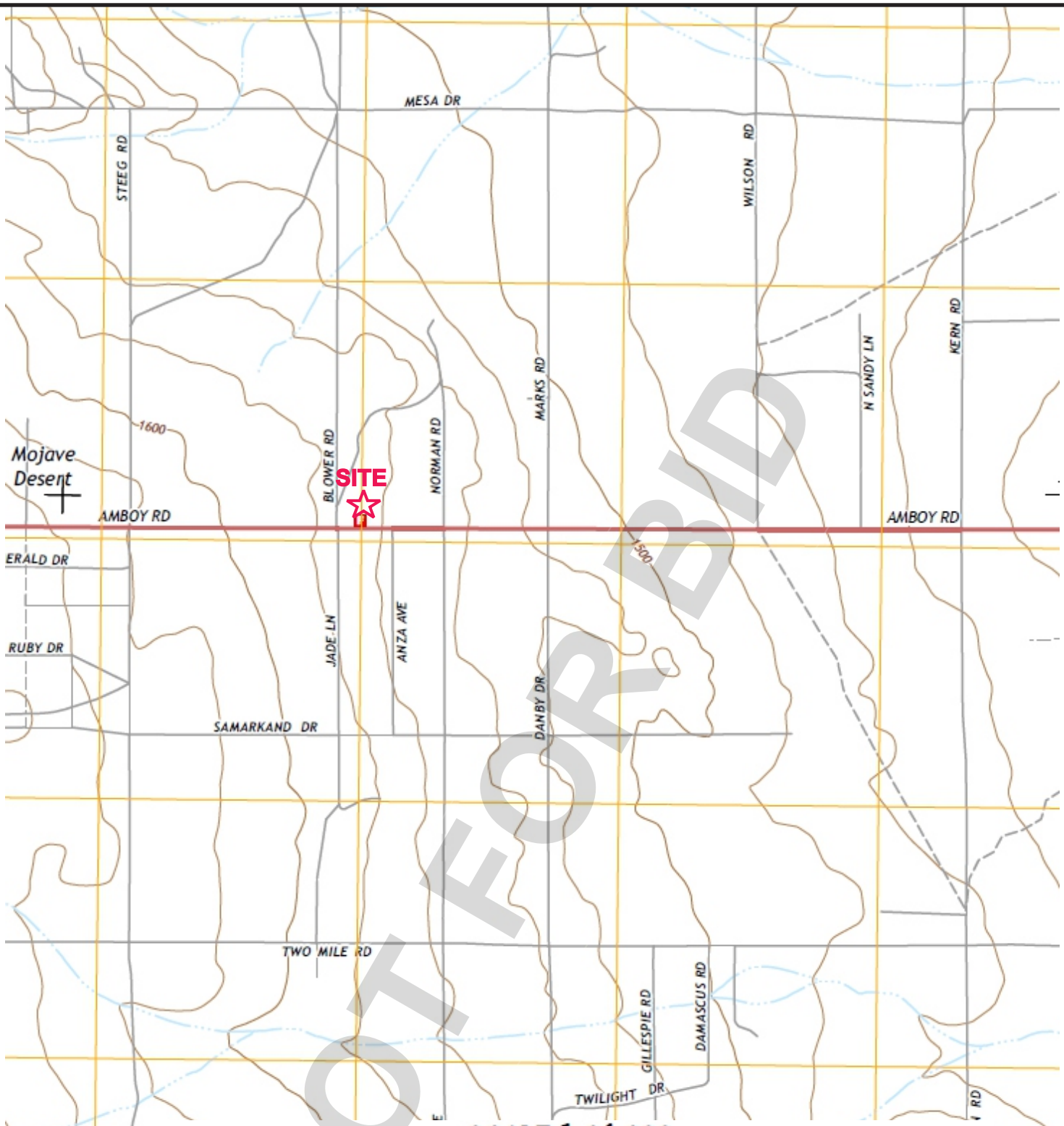

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Source: Copied from USGS Topo Map-
Valley Mountain Quadrangle 2015

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SITE LOCATION MAP

80256 Amboy Road, Twentynine Palms, CA 92277

By: MC	Date: 03/2024
Project No.: 0904-13.1	**Figure 1**

proposed OWTS.

c) Vegetation: Currently the site contains no vegetation within the location of the proposed septic system.

d) Existing structures: an existing community center, firehouse, and sheds, etc. are located on the subject site.

e) Wells: water wells were observed on the site not within 150 feet from the proposed OWTS.

f) Rock Outcroppings: No rock outcroppings were observed on the site.

g) Depth to historic groundwater: Borings were drilled on-site, to a maximum depth of 40 feet and showed no evidence of groundwater.

h) Any other feature that may affect sewage disposal: none.

2.0 EQUIPMENT

2.1 The following equipment was used during our percolation testing study:

a) Truck mounted drill rig with an 8-inch-diameter hollow stem auger.

b) 3" diameter hose.

c) Water indicator.

d) 3" perforated casing.

e) Pipe guard (casing sleeve).

f) Watch / data sheets.

3.0 METHODOLOGY AND PROCEDURES

3.1 Location of Exploratory Borings and Percolation Tests:

The two 8-inch borings were drilled where the proposed septic system will be located. One borehole was drilled to 40 feet below the ground surface (bgs). No groundwater was encountered. The deeper boring was backfilled to 30 feet bgs. The other borehole was drilled to 30 feet bgs. Two boreholes were logged and converted to percolation test pits as part of this study. The approximate test boring locations are shown on Plate No. 1, 'Test Pit Locations and OWTS Layout'.

3.2 Soil Characteristics of the Subject Site:

a) The soil characteristics for the subject site are considered favorable.

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b) There was no visible evidence of shallow groundwater or impervious bedrock materials in the borings or on site.

c) Tests and borings performed were consistent with the visual evidence.

d) The gradient of the proposed seepage pit area is relatively flat.

3.3 Number of Exploratory Borings:

Two borings were drilled on January 16, 2024. The minimum number of exploratory borings required by San Bernardino County DEHS for favorable to moderate soil characteristics of a commercial lot is one (1) boring. One deep exploratory boring was conducted on January 16, 2024.

3.3.1 Boring Results: Earth materials underlying the proposed sewage disposal area consisted of alluvium. The alluvial materials consisted of light yellowish brown silty sand. The earth materials were moist and loose to medium dense in consistency.

a) Soil profile descriptions for the exploratory borings are shown on the boring logs, Plate Nos. 3 and 4.

b) No low permeability layers were observed in both soil boreholes and soils were generally consistent between both soil borings.

c) The soils encountered in the exploratory borings were classified by the Unified Soil Classification System (ASTM D2487).

d) All colors described were moist soil colors. There was no reduction-oxidation mottling observed in either of the exploratory borings.

e) In the zone of the proposed seepage pit, there was no significant root observed.

f) Soils associated with the alluvial materials were generally medium dense in consistency.

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g) All observed soils were moist. There were no wet or saturated soils encountered in the subsurface exploration or test boreholes.

h) No groundwater was encountered on the site.

i) The test borings were backfilled with minimal compactive effort using excavated soils.

3.4 Minimum Number of Tests for Seepage Pits:

A commercial lot with anticipated favorable soil conditions requires a minimum of two percolation tests. Two percolation tests were conducted on the subject site within the anticipated area of the proposed subsurface sewage disposal system as part of this study.

3.4.1 Percolation Testing Procedures:

Excavation of Test Borings

Exploratory boring SP-1 was drilled to a depth of 40 feet for groundwater verification and the other boring SP-2 was drilled to a depth of 30 feet. On January 16, 2024, after the verification of groundwater, boring SP-1 was backfilled to 30 feet. Both boreholes were converted to percolation test holes.

Test Holes

a) Test Hole Diameters: The diameters of the test holes were 8 inches.

b) Depth of test holes: After completion of the borings, 3"-diameter plastic PVC perforated casing with a nylon sleeve was inserted inside of the auger. The augers were then removed gently; and the bottom was covered with approximately 1 foot of gravel. The remainder of the augers were then removed. Pre-soaking was then conducted on two test holes on January 16, 2024. The drilled depths can be found on the boring logs Plate Nos. 3 and 4.

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3.4.2 Pre-Soak

a) Soaking Period: two test holes were pre-soaked on January 16, 2024. Since the water seeps no faster than half the initial wetted depth in 30 minutes. Since January 17 and 18, 2024 were weekend, test holes were re-soaked on January 19, 2024.

b) Soaking Method: after the insertion of the 3-inch PVC perforated casing, each test pit was filled to the ground surface with water from a truck-mounted water tank.

d) The percolation testing was conducted January 20, 2024.

Measurement of the Percolation Rate:

1) Water level in each test hole was filled approximately to the ground surface in each borehole between each 30-minute interval per the DEHS Perc testing manual.

2) After setting the water level, the level was allowed to drop every 30 minutes for a total of a 6-hour period. The water level was read with a water indicator from the ground surface. The depths of the borings were recorded with each reading and read with the water indicator. Each reading was recorded on the percolation data sheet.

3.4.3 Percolation Test Results

Detailed percolation test results, in general accordance with San Bernardino County DEHS specification, are included in Appendix 'A' as Plate Nos. 5 and 6. The following are tabulated results of the percolation testing:

Gallons of seepage (Q) were calculated from the following equation:

$$Q = \frac{(d_f - d_i) * D * 9}{(d_b - (d_i + d_f) * 0.5) * t}$$

Where

d_f – depth of water-final in feet.

d_i – depth of water-initial in feet.

D – diameter of casing in feet.

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d_b – depth of bottom (initial water column) in feet.
t – time interval in hour.

Table 1 – Percolation Test Results

Percolation Test Hole No.	Test Hole Depth	Soil Classification	Slowest Percolation Rate, (Gal/Square foot/Day)
SP-1	30.0	SM	3.57
SP-2	30.0	SM	3.45

4.0 DISCUSSION OF RESULTS

4.1 Uniformity of Soil

The soil within the proposed sewage disposal area consists of silty fine to medium grained sand. Most of the soils encountered in the borings were consistent and classified by the USCS classification system as a SM. Given the soils are alluvium, the degree of cementation at specific locations can vary. A slightly faster percolation rate was obtained in percolation test hole SP-2 likely due to the degree cementation of alluvium.

4.2 Sources of Variability or Error

There were no known sources of error. Variability in percolation test rates occurred primarily due to the drilling depth, the slight subsurface material change, and degree of cementation within the alluvial sediments.

4.3 Interpretation of Results

Based on results of percolation testing at the area of the proposed seepage pits, the subject site is believed to be feasible for installation of an on-site sewage disposal system that conforms to the San Bernardino County DEHS requirements. Groundwater was not encountered to up to 40 feet bgs. The proposed OWTS is not anticipated to affect groundwater quality.

5.0 DESIGN

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5.1 General Criteria

The disposal system for the site should be designed and constructed in accordance with the San Bernardino County DEHS criteria and applicable portion of the California Plumbing Code. The San Bernardino County design criteria can be found in the DEHS publication *Soil Percolation Testing and Reporting Standards for Onsite Wastewater Treatment System Systems*, Revised dated September 2019. In addition, if the seepage pit and tank are proposed to be driven over, they should be designed to a minimum H-20-wheel loading.

5.2 Conversion of Percolation Rate to Seepage Pit Design Rates

The existing conventional system was certified by Action Pumping Inc. on July 20, 2023. The existing septic system certification is included in Appendix B. The existing fixture units and total future units will be 28 and 38 fixture units, which are shown on OWTS Fixture Unit Worksheet in Plate No. 1b of **Appendix A**. According to the County project manager Alfonso Fausto, the existing septic system will remain in use, which will be hooked up to 28 fixture units. The extra 10 fixture units will be hooked to the new OWTS. Per California Plumbing Code Table H 201.1(1), a 750-gal septic tank will be required to accommodate the additional wastewater discharge.

Based on percolation test results, the slower percolation rate of 3.45 gal/sf/day obtained from test hole SP-2 is used for the new OWTS design. The seepage pit calculation for a 4-foot diameter seepage pit is shown as follows:

1. The seepage pit design rate: 1/QX100=28.99 sf/100 gstc
2. Design depth below inlet=septic tank capacity/ (Q.D.π)=750/(3.45*4*3.14)=17.3 feet

One 4-foot diameter seepage pit having 22 feet in depth and cap depth of 4 feet is recommended for the new OWTS ((22-4) feet perco. depth=18 >17.3 feet required depth). and the same size and depth seepage pit should be

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constructed in the future 100% expansion.

CLOSURE

The findings and recommendation of this report were prepared in accordance with generally accepted professional engineering principles and practices in the field of soil mechanics. The conclusions are based on the results of the field exploration and testing combined with an interpolation of soils conditions between the exploratory borings. If conditions are encountered during construction that appear different that those indicated by this report, this firm should be notified.

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APPENDIX A

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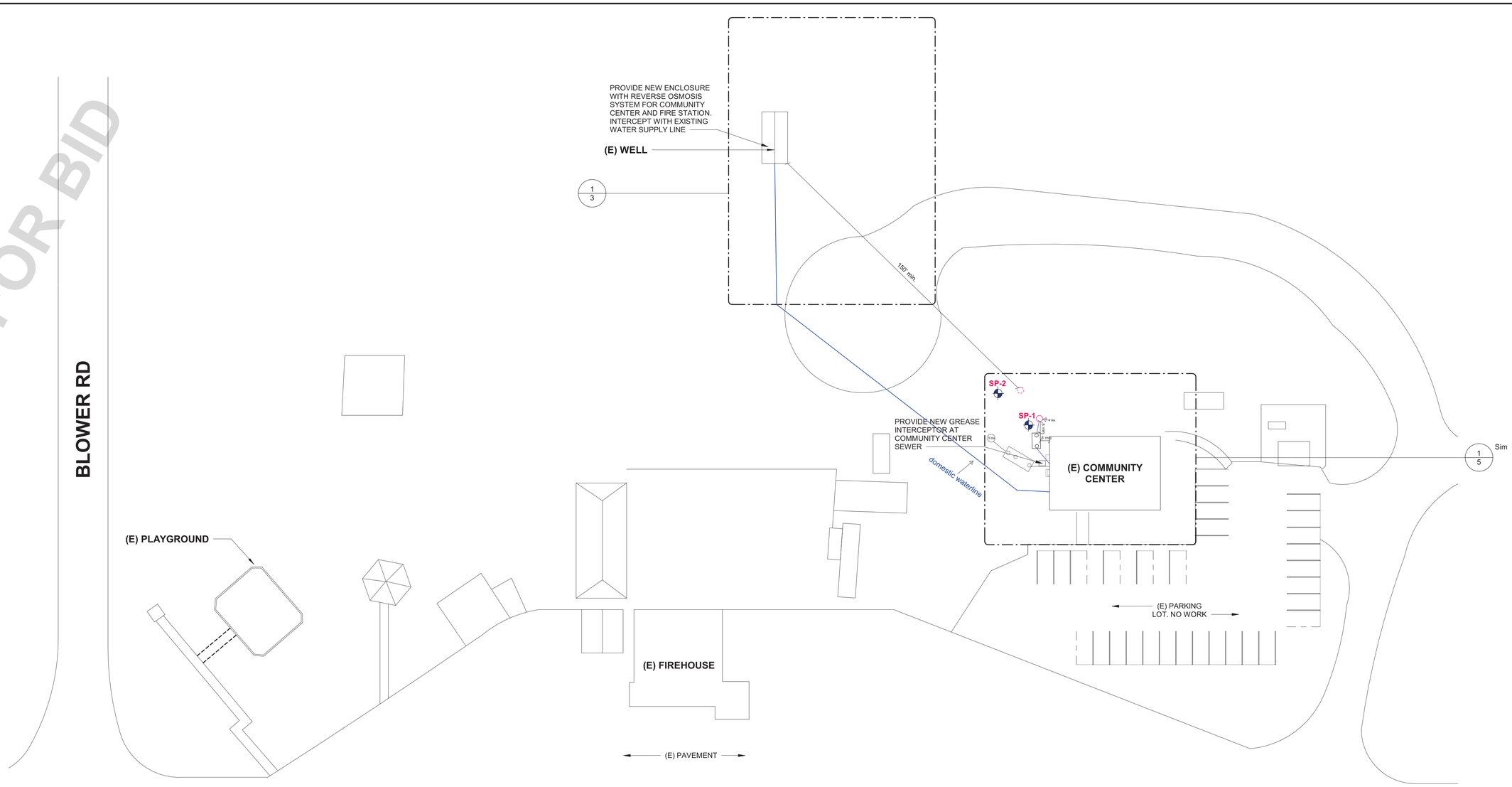

1 RENOVATION SITE PLAN

SCALE: 1" = 30'-0"

Legend

- **SP-1** Seepage Pit Test Location
- Proposed 4-foot diameter seepage pit for present use
- 4-foot diameter seepage pit for 100% future expansion
- Existing 5-foot diameter seepage pit
- Existing 2,500-gal. septic tank
- 750-gallon Jensen precast septic tank or equivalent

N

0 30 feet

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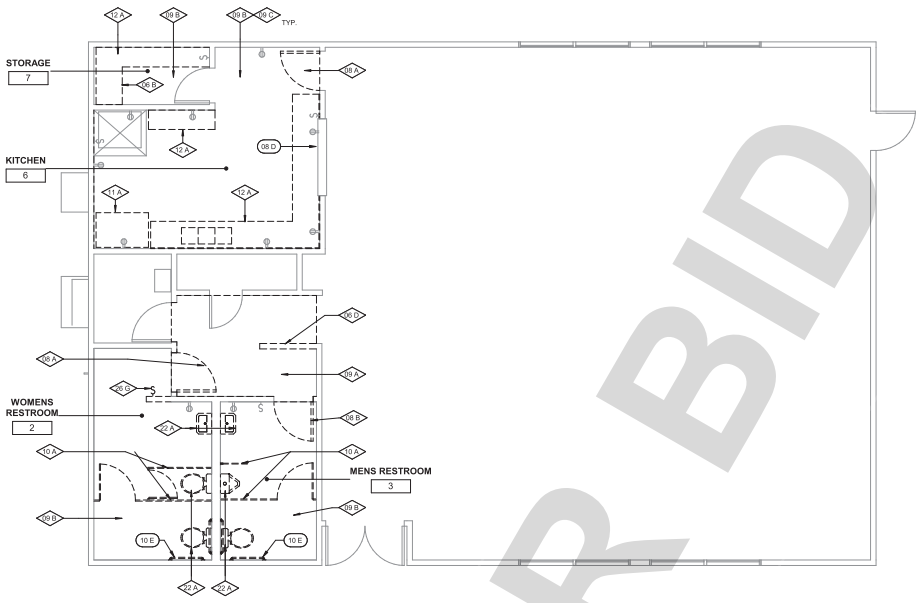
Test Pit Locations and Proposed OWTS Layouts

80256 Amboy Road, Twentynine Palms, CA 92277

By: MC	Date: 03/2024
Project No.: 0904-13.1	**Plate No. 1**



1 DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"

N

DEMOLITION KEYNOTES

06 B	REMOVE AND DISPOSE OF EXISTING SHELVES. PATCH & REPAIR IMPACTED WORK AREA.
06 D	REMOVE AND DISPOSE OF EXISTING PORTION OF WALL. PATCH AND REPAIR DAMAGED WALL SURFACES TO MATCH EXISTING AND PREPARE FOR NEW WORK (WHERE OCCURS).
08 A	REMOVE EXISTING DOOR(S), HM DOOR FRAME, AND THRESHOLD.
08 B	EXISTING DOOR TO REMAIN. REMOVE DOOR HARDWARE AND REPLACE WITH NEW COMPLIANT TYPE. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
08 D	REMOVE AND DISPOSE OF PASS THROUGH COUNTER. PREPARE FOR NEW WORK.
09 A	REMOVE AND DISPOSE OF EXISTING CARPET FLOORING MATERIAL AND ADHESIVE MATERIAL TO ACCOMMODATE NEW FINISH MATERIAL. PREPARE FOR NEW WORK.
09 B	REMOVE AND DISPOSE OF EXISTING VINYL TILE FLOORING MATERIAL AND ADHESIVE MATERIAL TO ACCOMMODATE NEW FINISH MATERIAL. PREPARE FOR NEW WORK.
09 C	REMOVE AND DISPOSE OF EXISTING RUBBER WALL BASE. PATCH AND REPAIR TO MATCH EXISTING INTERIOR WALLS.
10 A	REMOVE AND SALVAGE EXISTING TOILET PARTITIONS AND ATTACHED TOILET ACCESSORIES.
10 E	REMOVE AND SALVAGE EXISTING GRAB BARS FROM WALL, PATCH REPAIR WALL SURFACE TO MATCH EXISTING.
11 A	REMOVE AND SALVAGE EXISTING REFRIGERATOR. STORE ON SITE, UNLESS OTHERWISE INSTRUCTED.
12 A	REMOVE EXISTING BUILT IN COUNTER OR BUILT IN STORAGE CABINET AND COUNTERTOP.
22 A	REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED FITTINGS. CAP UTILITY LINES BELOW WALL/FLOOR SURFACES AS REQUIRED. RECONNECT PIPING TO NEW FIXTURES SHOWN ON RENOVATION PLAN. PATCH AND REPAIR IMPACTED WALL/FLOOR SURFACES.
26 G	REMOVE EXISTING LIGHT SWITCHES AND OUTLETS. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

DEMOLITION NOTES

1. CAP ALL EXISTING UTILITIES & PREPARE FOR NEW WORK AS REQUIRED.
2. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETE DEMOLITION WORK AS INDICATED ON DRAWINGS AND SPECIFICATIONS AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
3. PATCH, REPAIR, AND RESTORE ALL AREAS DAMAGED BY THE CONSTRUCTION WORK AND DEMOLITION TO MATCH CONDITION OF ADJACENT UNDISTURBED SURFACES.
4. REMOVE FROM THE SITE ALL MATERIAL RESULTING FROM THE DEMOLITION WORK IN SUCH A MANNER AS TO AVOID CREATING A NUISANCE. DISPOSE OF ALL MATERIALS FROM THE SITE ON A DAILY BASIS AT NO ADDITIONAL COST TO THE OWNER.
5. DISPOSE OF ALL MATERIAL RESULTING FROM THE DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS, INCLUDING THOSE GOVERNING NOISE, DUST, AND DIRT CONTROL; DISPOSAL OF HAZARDOUS MATERIALS; AND REQUIREMENTS OF THE LOCAL AIR QUALITY MANAGEMENT DISTRICT.

WALL TYPE

WALLS TO BE DEMOLISHED

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE 1-800-227-2600 OR 811
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

BASIS OF BEARING:

Edward Lok Ng — C-16840 — REN 11/30/25 — LICENSED ARCHITECT — STATE OF CALIFORNIA

BOA Architecture Government Services
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900
PREPARED UNDER THE SUPERVISION OF:
EDWARD LOK NG | C-16840 | 2-8-2024
ARCHITECT | NO. | DATE

REVISIONS					
No.	Date	By	Rev	Ck	Date

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
2-8-2024

APPROVALS		INITIAL	DATE
ASSISTANT DIRECTOR			
	PROJECT MANAGER		
	OPS, DIVISION MANAGER		
	PM, DIVISION MANAGER		

IMPROVEMENT PLANS

WONDER VALLEY COMMUNITY CENTER
SITE IMPROVEMENTS

DEMOLITION FLOOR PLAN

DWG. NO.
FILE NO.
SHEET 4 OF

DATE: 2/8/2024 4:42:24 PM

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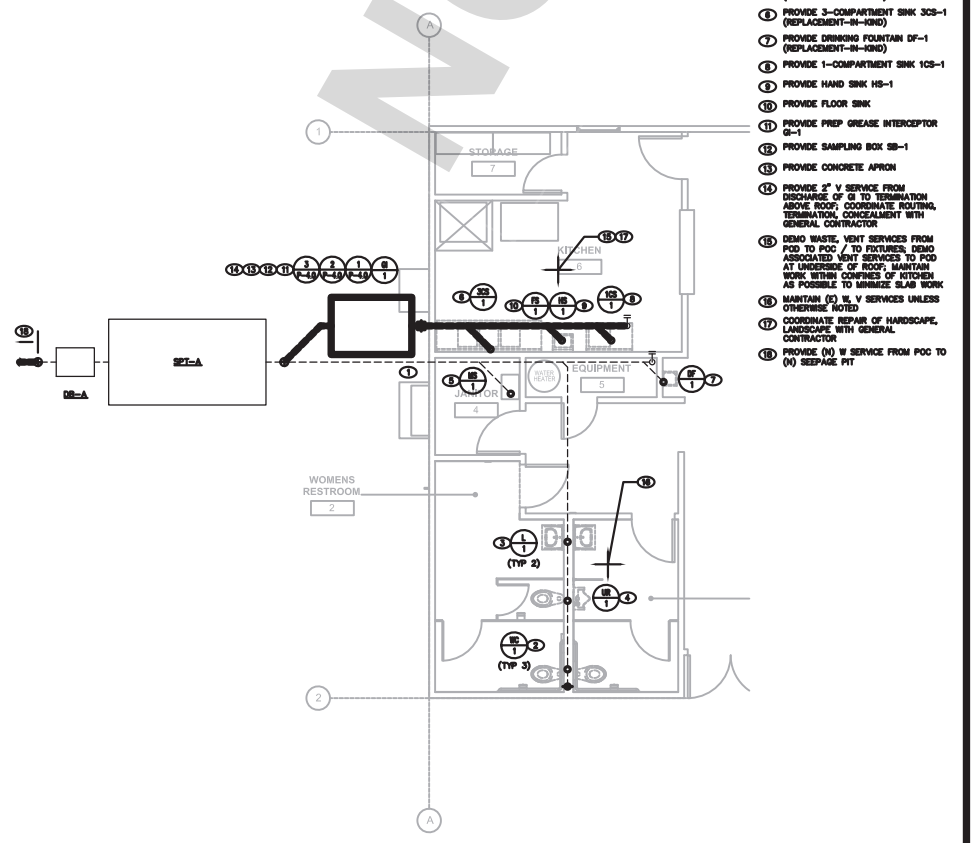
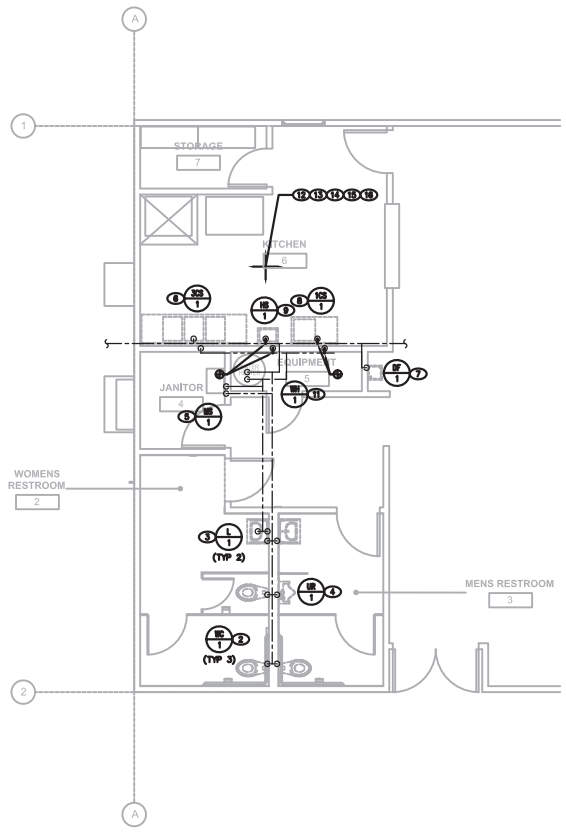


NOTES:
1. MAINTAIN 4" W SERVICE FROM (E) W SERVICE ON SITE TO POINTS OF CONNECTION
2. PROVIDE WATER CLOSET WC-1 (REPLACEMENT-IN-KIND)
3. PROVIDE LAVATORY L-1 (REPLACEMENT-IN-KIND)
4. PROVIDE URINAL UR-1 (REPLACEMENT-IN-KIND)
5. PROVIDE MOP SINK MS-1 (REPLACEMENT-IN-KIND)
6. PROVIDE 3-COMPARTMENT SINK 3CS-1 (REPLACEMENT-IN-KIND)
7. PROVIDE DRINKING FOUNTAIN DF-1 (REPLACEMENT-IN-KIND)
8. PROVIDE 1-COMPARTMENT SINK 1CS-1
9. PROVIDE HAND SINK HS-1
10. PROVIDE FLOOR SINK
11. PROVIDE PREP GREASE INTERCEPTOR GI-1
12. PROVIDE SAMPLING BOX SB-1
13. PROVIDE CONCRETE APRON
14. PROVIDE 2" V SERVICE FROM DISCHARGE OF GI TO TERMINATION ABOVE ROOF; COORDINATE ROUTING, TERMINATION, CONCEALMENT WITH GENERAL CONTRACTOR
15. DEMO WASTE, VENT SERVICES FROM POD TO POC / TO FIXTURES; DEMO ASSOCIATED VENT SERVICES TO POD AT UNDERSIDE OF ROOF; MAINTAIN WORK WITHIN CONFINES OF KITCHEN AS POSSIBLE TO MINIMIZE SLAB WORK
16. MAINTAIN (E) W, V SERVICES UNLESS OTHERWISE NOTED
17. COORDINATE REPAIR OF HARDSCAPE, LANDSCAPE WITH GENERAL CONTRACTOR
18. PROVIDE (N) W SERVICE FROM POC TO (N) SEEPAGE PIT

NORTH

RENO ENLARGE FLOOR PLAN – WASTE & VENT
SCALE: 1/4"=1'-0"



NOTES:
1. MAINTAIN 1" CW SERVICE FROM (E) CW SERVICE ON SITE TO POINTS OF CONNECTION
2. PROVIDE WATER CLOSET WC-1 (REPLACEMENT-IN-KIND)
3. PROVIDE LAVATORY L-1 (REPLACEMENT-IN-KIND)
4. PROVIDE URINAL UR-1 (REPLACEMENT-IN-KIND)
5. PROVIDE MOP SINK MS-1 (REPLACEMENT-IN-KIND)
6. PROVIDE 3-COMPARTMENT SINK 3CS-1 (REPLACEMENT-IN-KIND)
7. PROVIDE DRINKING FOUNTAIN DF-1 (REPLACEMENT-IN-KIND)
8. PROVIDE 1-COMPARTMENT SINK 1CS-1
9. PROVIDE HAND SINK HS-1
10. NOT USED
11. PROVIDE WATER HEATER WH-1 (REPLACEMENT-IN-KIND)
12. MAINTAIN CW SERVICE IN SPACE TO POC
13. PROVIDE CW SERVICE FROM POC IN VICINITY OF POINTS OF USE
14. REPAIR SLAB FOR SAW CUTS; RESTORATION OF FLOOR TO ORIGINAL CONDITION BY GENERAL CONTRACTOR
15. RESTORATION OF WALL TO ORIGINAL CONDITION BY GENERAL CONTRACTOR
16. RESTORATION OF HARD LID CEILING TO ORIGINAL CONDITION BY GENERAL CONTRACTOR

NORTH

RENO ENLARGE FLOOR PLAN – HOT & COLD WATER
SCALE: 1/4"=1'-0"

UNDERGROUND SERVICE ALERT
Call: TOLL FREE 1-800-227-2600 OR 811
TWO WORKING DAYS BEFORE YOU DIG

SAN BERNARDINO COUNTY
SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS
SPECIAL DISTRICTS
222 WEST HOSPITALITY LANE, 2ND FLOOR
SAN BERNARDINO, CA 92415-0450
(SITE CONTACT - FRANK HAGGARD, 760-366-8415)
(EMAIL - FHAGGARD@SDD.SBCOUNTY.GOV))

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PREPARED UNDER THE SUPERVISION OF:
KEVIN M. FRIEDMAN | M-27787 | 6/30/2025
PROFESSIONAL ENGINEER | R.C.E. No. | DATE

REVISIONS

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

APPROVALS		INITIAL	DATE
ASSISTANT DIRECTOR			
	PROJECT MANAGER		
	OPS, DIVISION MANAGER		
	PM, DIVISION MANAGER		

WONDER VALLEY RE-MODEL
80526 1/2 AMBOY ROAD
WONDER VALLEY, CA 92277
Alfonso.Fausto@SDD.SBCounty.gov
Phone: 909-386-8827 Cell: (909)771-1702

DWG NO. 30.30.0149
SHEET NO. P-2.1
SHEET 4 OF 7

HILLTOP GEOTECHNICAL INCORPORATED

Existing Floor Plan and Renovation Floor Plan
80256 Amboy Road, Twentynine Palms, CA 92277

By: MC	Date: 03/2024
Project No.: 0904-13.1	**Plate No. 1a**

ONSITE WASTEWATER TREATMENT SYSTEM FIXTURE UNIT WORKSHEET

This worksheet shall be used to determine the existing fixture unit count and the proposed fixture unit count for all planned alterations to existing structures. Floor plans may be required to confirm both existing and proposed conditions. When only proposing a new OWTS system, complete the proposed column (B) of the worksheet. The completed worksheet shall be certified by a Registered Civil Engineer (R.C.E.), R.E.H.S, Registered Geologist (R.G.), or an "A", "C-42", "C-36" Contractors License.

Date:	File Index Number:
Applicant:Wonder Valley Community Center	Address:80526 Amboy Road
Worksheet Certified By (print name):	Worksheet Certified By (signature):
Applicable California State License or Registration Type:	State License or Registration Number and Expiration Date:
Number of Fixtures (existing):	Number of Fixtures (future):

Type of Plumbing Fixture	Existing Fixtures	+	Proposed Fixtures	+	Total Fixtures	x	Fixture Unit Value	=	Existing Fixture Unit	Future Fixture Unit
	"A"	+	"B"	+	"(A+B)"	x	"C"	=	"(A x C)"	"(A+B) x C"
Drinking Fountain		+		+		x	0.5	=		
Floor Drain		+		+		x	2	=		
Floor Drain (Emergency - i.e. in restrooms)		+		+		x	0	=		
Floor Sink (1.5" Trap)		+		+		x	3	=		
Floor Sink (2" Trap)		+		+		x	4	=		
Floor Sink (3" Trap)		+		+		x	6	=		
Floor Sink (4" Trap)		+		+		x	8	=		
3 Compartment Sink (Does not count floor sink)		+	4	+	4	x	3	=		12
Hand Sink	3	+	-2	+	1	x	1	=	3	1
Mop Sink	1	+	0	+	1	x	3	=	3	3
Bar Sink		+		+		x	2	=		
Urinal	1	+	0	+	1	x	2	=	2	2
Water Closet (Flush Toilet)	3	+	0	+	3	x	6	=	18	18
Lavatory	2	+	0	+	2	x	1	=	2	2
Food Prep Sink		+		+		x	3	=		
Other (CPC Table 702.1)		+		+		x		=		

For more information review the current California Plumbing Code.

TOTAL EXISTING FIXTURE UNITS 28

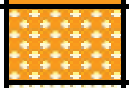
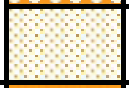
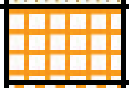
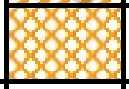
TOTAL FUTURE FIXTURE UNITS 38

NOT FOR BID

Plate No. 1b

KEY TO LOGS

SOILS CLASSIFICATION

MAJOR DIVISIONS			GRAPHIC LOG	USCS SYMBOL	TYPICAL NAMES
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVELS MORE THAN 50% OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS LESS THAN 5% FINES		GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES MORE THAN 12% FINES		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SANDS 50% OR MORE OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	CLEAN SANDS LESS THAN 5% FINES		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES MORE THAN 12% FINES		SM	SILTY SANDS, SAND-SILT MIXTURES
				SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE GRAINED SOILS 50% OR MORE OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT IS LESS THAN 50			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT IS 50 OR MORE			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR GRAVELLY ELASTIC SILTS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT AND OTHER HIGHLY ORGANIC SOILS

GRAIN SIZES

SILT AND CLAY	SAND			GRAVEL		COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE		
	#200	#40	#10	#4	3/4"	3"	12"
SIEVE SIZES							

NOT FOR BID

Hilltop Geotechnical
786 S. Gifford Avenue, San Bernardino, California, 92408
Phone: 909 890 9079

Boring No.: SP-1

Latitude	:	Drill Supplier	: Choice Drilling	Job Number	: 0904-13	Sheet	: 1 OF 1
Longitude	:	Driller Company	: Choice Drilling	Client	: County of San Bernardino Dept of Public Works - Pavement Management		
Elevation	: Not Surveyed	Logged By	: Nathan Lankey	Project	: CSA Wonder Valley Comm. Center Perc		
Total Depth	: 40 ft	Date	: 02/16/2024	Location	: 80526 Amboy Road, Twentynine Palms, CA, USA		

Depth (ft)	Samples: Bulk	Blows per 6" (SPT)	Blows per 6" (ModCal)	Graphic Log	Soil Origin	Classification Code	Material Description	Testing: % Fines	Moisture %	Dry Density (pcf)	Other
1–5	X				Alluvium	SM	SILTY SAND (SM) : silty fine to medium grained sand, loose to medium dense, moist, trace to few fine to medium sized, gravel, light yellowish brown.				
40							**B-1 Terminated at 40ft (No caving observed. No ground encountered.)**				

NOT FOR BID

Hilltop Geotechnical
786 S. Gifford Avenue, San Bernardino, California, 92408
Phone: 909 890 9079

Boring No.: SP-2

Latitude	:	Drill Supplier	: Choice Drilling	Job Number	: 0904-13	Sheet	: 1 OF 1
Longitude	:	Driller Company	: Choice Drilling	Client	: County of San Bernardino Dept of Public Works - Pavement Management		
Elevation	: Not Surveyed	Logged By	: Nathan Lankey	Project	: CSA Wonder Valley Comm. Center Perc		
Total Depth	: 30 ft	Date	: 02/16/2024	Location	: 80526 Amboy Road, Twentynine Palms, CA, USA		

Depth (ft)	Samples	Blows per 6" (SPT)	Blows per 6" (ModCal)	Graphic Log	Soil Origin	Classification Code	Material Description	Testing: % Fines	Testing: Moisture %	Testing: Dry Density (pcf)	Testing: Other
1–30					Alluvium	SM	SILTY SAND (SM) : silty fine to medium grained sand, loose to medium dense, moist, trace to few fine to medium sized gravel, light yellowish brown.				
31							**B-2 Terminated at 30ft (No caving observed. No groundwater encountered.)**				

NOT FOR BID

HILLTOP GEOTECHNICAL INCORPORATED

SEEPAGE PIT PERCOLATION DATA SHEET

Project Name:	Wonder Valley Community Center	Project Number:	0904-13
Test Hole Number:	SP-1	Date Tested:	2/20/2024
Depth of Boring in feet:	30.0	Tested By:	NL
Diameter of Boring in feet:	0.67	Hours Presatura	1

Depth of Bottom (ft)	Time Initial	Time Final	Time Interval (minutes)	Depth of Water - Initial (ft)	Depth of Water - Final (ft)	Change in Water Level (ft)	$L_{average}$ (ft)	Rate, Q (gal/ft^2/day)
30.0	8:50:00	9:20:00	30	0.00	14.00	14.00	23.00	7.34
29.4	9:30:00	10:00:00	30	0.00	12.00	12.00	24.00	6.03
28.9	10:03:00	10:33:00	30	0.00	9.40	9.40	25.30	4.48
28.5	10:35:00	11:05:00	30	0.00	8.80	8.80	25.60	4.15
28.3	11:08:00	11:38:00	30	0.00	8.50	8.50	25.75	3.98
28.0	11:40:00	12:10:00	30	0.00	8.50	8.50	25.75	3.98
27.8	12:13:00	12:43:00	30	0.00	8.00	8.00	26.00	3.71
27.5	12:46:00	13:16:00	30	0.00	8.20	8.20	25.90	3.82
27.0	13:20:00	13:50:00	30	0.00	8.00	8.00	26.00	3.71
27.0	13:52:00	14:22:00	30	0.00	8.00	8.00	26.00	3.71
26.8	14:25:00	14:55:00	30	4.00	10.80	6.80	22.60	3.63
26.7	14:48:00	15:18:00	30	4.00	10.70	6.70	22.65	3.57

Average Rate (gal/ft2/day): **4.34**

Plate No. 5

NOT FOR BID

HILLTOP GEOTECHNICAL
INCORPORATED

SEEPAGE PIT PERCOLATION DATA SHEET

Project Name:	Wonder Valley Community Center	Project Number:	0904-13
Test Hole Number:	SP-2	Date Tested:	2/20/2024
Depth of Boring in feet:	30.0	Tested By:	NL
Diameter of Boring in feet:	0.67	Hours Presatura	1

Depth of Bottom (ft)	Time Initial	Time Final	Time Interval (minutes)	Depth of Water - Initial (ft)	Depth of Water - Final (ft)	Change in Water Level (ft)	$L_{average}$ (ft)	Rate, Q (gal/ft^2/day)
30.0	8:54:00	9:24:00	30	0.00	13.50	13.50	23.25	7.00
29.6	9:35:00	10:05:00	30	0.00	12.00	12.00	24.00	6.03
29.0	10:08:00	10:38:00	30	0.00	9.70	9.70	25.15	4.65
28.7	10:40:00	11:10:00	30	0.00	8.50	8.50	25.75	3.98
28.5	11:13:00	11:43:00	30	0.00	8.50	8.50	25.75	3.98
28.2	11:45:00	12:15:00	30	0.00	8.30	8.30	25.85	3.87
28.0	12:17:00	12:47:00	30	0.00	8.20	8.20	25.90	3.82
27.8	12:48:00	13:18:00	30	0.00	8.00	8.00	26.00	3.71
27.5	13:22:00	13:52:00	30	0.00	7.80	7.80	26.10	3.60
27.4	13:54:00	14:24:00	30	0.00	7.70	7.70	26.15	3.55
27.2	14:25:00	14:55:00	30	4.00	10.60	6.60	22.70	3.51
27.2	14:47:00	15:17:00	30	4.00	10.50	6.50	22.75	3.45

Average Rate (gal/ft2/day): **4.26**

Plate No. 6

NOT FOR BID

APPENDIX B

COMMERCIAL ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) CERTIFICATION

NOT FOR BID

HILLTOP GEOTECHNICAL, INC

SAN BERNARDINO COUNTY
Public Health
Environmental Health Services

385 N. Arrowhead Ave., 2nd floor, San Bernardino, CA 92415
Email: EHS.CustomerService@dph.sbcounty.gov
Website: wp.sbcounty.gov/dph/ehs
Text/Call: 800.442.2283
Fax: 909.387.4323

COMMERCIAL ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) CERTIFICATION

Certification shall be completed by a state licensed contractor (A, C-36, or C-42) or other qualified professional/service provider such as: Registered Professional Engineer (R.P.E.), Certified Engineering Geologist (C.E.G.), Registered Environmental Health Specialist (R.E.H.S.), etc. For more information, call 800-442-2283.

APPLICANT INFORMATION

Property Owner: Wonder Valley Community Center	Applicant Name: ALFONSO FAUSTO
Property Address: 80526 Amboy Road	Phone Number: (760) 366-8415
Mailing Address:	Email: alfonso.fausto@sdd.sbcounty.gov
Type of Facility *(restaurant, apartment, warehouse, etc.)*: COMMUNITY CENTER	
APN: 0626510-04	Project Number: 30.30.0149

OWTS INFORMATION

COMMERCIAL DEVELOPMENT

Types of Fixtures *(per CPC; indicate type and number of each)*
Complete the "Onsite Wastewater Treatment System Fixture Unit Worksheet" (Page 4).

Total Number of Fixture Units: 25 | Influent Strength: ☒Normal ☐High Strength ☐Weak

TANKS

Type of OWTS: ☑Conventional ☐Advanced*	Dimensions (LxWxD): 16 X 4.2 X 4 ft.
Effluent Filter: ☑Yes ☐No	Tank Capacity: 2500 gallons
Type of Cover (specify): concrete	
Depth of Cover: ft. 26 in.	Number of Compartments: 2
Tank Function: ☑Septic ☐Treatment ☐Pump Vault ☐Dosing ☐Grease	
Inspection Risers: ☐Yes ☑No	Risers Diameter:
Liquid Level in Tank: ☑Normal at inlet level ☐Below inlet level ☐Above inlet level	Septage Levels: Scum: 6 in Effluent: in Sludge: 12 in
* Complete page 5 if using an advanced OWTS system.	

PUMP STATION

Does the system have a pumping station? ☐Yes ☑No Complete the section below if "Yes".		
Pump Vault Type: ☐In Tank Vault ☐Pump Station Vault ☐Dosing		Access: ☐Yes ☐No
Pump Vault Material: ☐Concrete ☐Plastic ☐Other:		
Diameter:	Floats: ☐Pass ☐Needs Adjustment ☐Fail	
Condition of Vault: ☐Acceptable ☐Structurally Unsound ☐Infiltration ☐Exfiltration		
Pumps: ☐Simplex ☐Duplex ☐Other:		Pumps Elevated: ☐Yes ☐No
Pumps Operation: ☐Pass ☐Fail ☐Pump Replaced		Alarms: ☐Yes ☐No
High Water Alarm: ☐Yes ☐No	Alarm Notification: ☐Telemetry ☐Visual ☐Audible	

NOT FOR BID

OWTS INFORMATION, CONTINUED

DISPERSAL SYSTEM

Type of Disposal Area: ☒ Seepage Pit ☐ Leachlines ☐ Other:

Distance from Well: 150 ft. | Distance from Foundation: 10 ft.

Distance from Nearest Lot Line: Front: 35 ft. Side: ft. Rear: ft.

Specify any Damage or Defects Observed:

SEEPAGE PITS

Number of Pits: 1 | Outside Diameter: 5 ft. | Depth: 24 ft.

Depth of Pit Below Inlet: 32 ft. | Lining Material (specify): CRUSH ROCK

Depth of Liquid: 10 ft. | Access Riser: ☐ Yes ☒ No

LEACHLINES

Number of Lines: | Trench Width: | Average Length of Lines:

Total Absorption Area (bottom of trenches): sq. ft. | Depth (finish grade to top of line): in.

Distance Between Lines: ft. | Type of Filter Material Beneath Line:

Depth of Material Above Line: in. | Depth of Material Beneath Line: in.

☐ Plastic Leaching Chambers ☐ Bundled Expanded Polystyrene Synthetic Aggregate Units

Specify Indications of Previous System Failures i.e., odors, seepage, etc. *(use additional paper if necessary)*:

DISTRIBUTION

Distribution Type: ☐ Direct Connection ☐ Box ☐ Manifold ☐ Other:

Material: ☐ Concrete ☐ Plastic ☐ Other:

Condition: ☐ Pass ☐ Damaged ☐ Failed | Access Riser to Grade: ☐ Yes ☐ No

Observed Deficiencies: ☐ Cracks ☐ Evidence of Ponding ☐ Roots ☐ Sludge ☐ Unlevel ☐ Water Infiltration

HYDRAULIC TEST

Dye Test: ☐ Yes ☐ No | Number of Gallons (500 gallon minimum):

Length of Time Added (60 minute minimum): | Liquid Level Rise: in.

Time to Return to Initial (30 minute minimum):

Comments (length of vacancy, irregularities, etc.):

NOTE: PLEASE ATTACH TEST RESULTS AND COPIES OF ANY BUILDING PERMITS.

NOT FOR BID

ONSITE WASTEWATER TREATMENT SYSTEM FIXTURE UNIT WORKSHEET

This worksheet shall be used to determine the existing fixture unit count and the proposed fixture unit count for all planned alterations to existing structures. Floor plans may be required to confirm both existing and proposed conditions. When only proposing a new OWTS system, complete the proposed column (B) of the worksheet. The completed worksheet shall be certified by a Registered Civil Engineer (R.C.E.), R.E.H.S, Registered Geologist (R.G.), or an "A", "C-42", "C-36" Contractors License.

Date:08/28/2023	File Index Number:
Applicant:Wonder Valley Community Center	Address:80526 Amboy Road
Worksheet Certified By (print name): Action Pumping Inc	Worksheet Certified By (signature):
Applicable California State License or Registration Type: C42. C36	State License or Registration Number and Expiration Date: 436154
Number of Fixtures (existing):	Number of Fixtures (future):

Type of Plumbing Fixture	Existing Fixtures	+	Proposed Fixtures	+	Total Fixtures	x	Fixture Unit Value	=	Existing Fixture Unit	Future Fixture Unit
	"A"	+	"B"	+	"(A+B)"	x	"C"	=	"(A x C)"	"(A+B) x C"
Drinking Fountain		+		+		x	0.5	=		
Floor Drain		+		+		x	2	=		
Floor Drain (Emergency - i.e. in restrooms)		+		+		x	0	=		
Floor Sink (1.5" Trap)		+		+		x	3	=		
Floor Sink (2" Trap)		+		+		x	4	=		
Floor Sink (3" Trap)		+		+		x	6	=		
Floor Sink (4" Trap)		+		+		x	8	=		
3 Compartment Sink (Does not count floor sink)		+		+		x	3	=		
Hand Sink	3	+	0	+	3	x	1	=	3	
Mop Sink	1	+	0	+	1	x	3	=	3	
Bar Sink		+		+		x	2	=		
Urinal	1	+	0	+	1	x	2	=	2	
Water Closet (Flush Toilet)	3	+	0	+	3	x	6	=	18	
Lavatory	2	+	0	+	2	x	1	=	2	
Food Prep Sink		+		+		x	3	=		
Other (CPC Table 702.1)		+		+		x		=		

For more information review the current California Plumbing Code.

TOTAL EXISTING FIXTURE UNITS 28

TOTAL FUTURE FIXTURE UNITS 0

NOT FOR BID

ALTERNATIVE TREATMENT SYSTEM INFORMATION FORM

This page is only required for OWTS with Alternative or Advanced Treatment Systems. Attach a copy of the last maintenance report provided by the service provider.

NOTE: ADVANCED OWTS WILL REQUIRE APPROVAL FROM SERVICE PROVIDER

Advanced Treatment Manufacturer:	Model:
EHS Permit Number:	
Advanced System Information: ☐Secondary Treatment ☐Disinfection ☐De-Nitrification	
Dimensions (LxWxD): x x ft.	Tank Capacity (gallons):
Wastewater Tank (other than a septic tank): ☐Yes ☐No	
Type of Tank: ☐Treatment ☐Holding ☐Equalization ☐Dosing/Pumping	
System Functioning in Accordance to Design: ☐Yes ☐No	
System Controls: ☐Yes ☐No	Controls Tested: ☐Yes ☐No
Pumping Systems: ☐Yes ☐No	Pumping System Functional: ☐Yes ☐No
Blower Operational: ☐Yes ☐No	Maintenance Required: ☐Yes ☐No
Disinfection Unit: ☐Yes ☐No	Disinfection Unit Operational: ☐Yes ☐No
Disinfection Unit Type: ☐UV ☐Chlorination/Dechlorination ☐Ozone	
Fixed Film Aerobic System Media Condition: ☐Good ☐Poor ☐Replaced ☐N/A	
Media Filter System Condition of Media: ☐Good ☐Poor ☐Replaced ☐N/A	
Spray System Condition: ☐Good ☐Poor ☐Repaired	Pressure Dosed: ☐Yes ☐No
Service Provider:	Contract Expiration Date:
Date of Last Maintenance:	Status of Last Maintenance:
Specify any Damage or Defects Observed:	

Indemnification – The Contractor agrees to indemnify, defend (with counsel reasonably approved by County) and hold harmless the County and its authorized officers, employees, agents and volunteers from any and all claims, actions, losses, damages, and/or liability arising out of this contract from any cause whatsoever, including the acts, errors or omissions of any person and for any costs or expenses incurred by the County on account of any claim except where such indemnification is prohibited by law. This indemnification provision shall apply regardless of the existence or degree of fault of indemnitees. The Contractor's indemnification obligation applies to the County's "active" as well as "passive" negligence but does not apply to the County's "sole negligence" or "willful misconduct" within the meaning of Civil Code Section 2782.

I certify that, to the best of my knowledge and ability, the information above is correct.

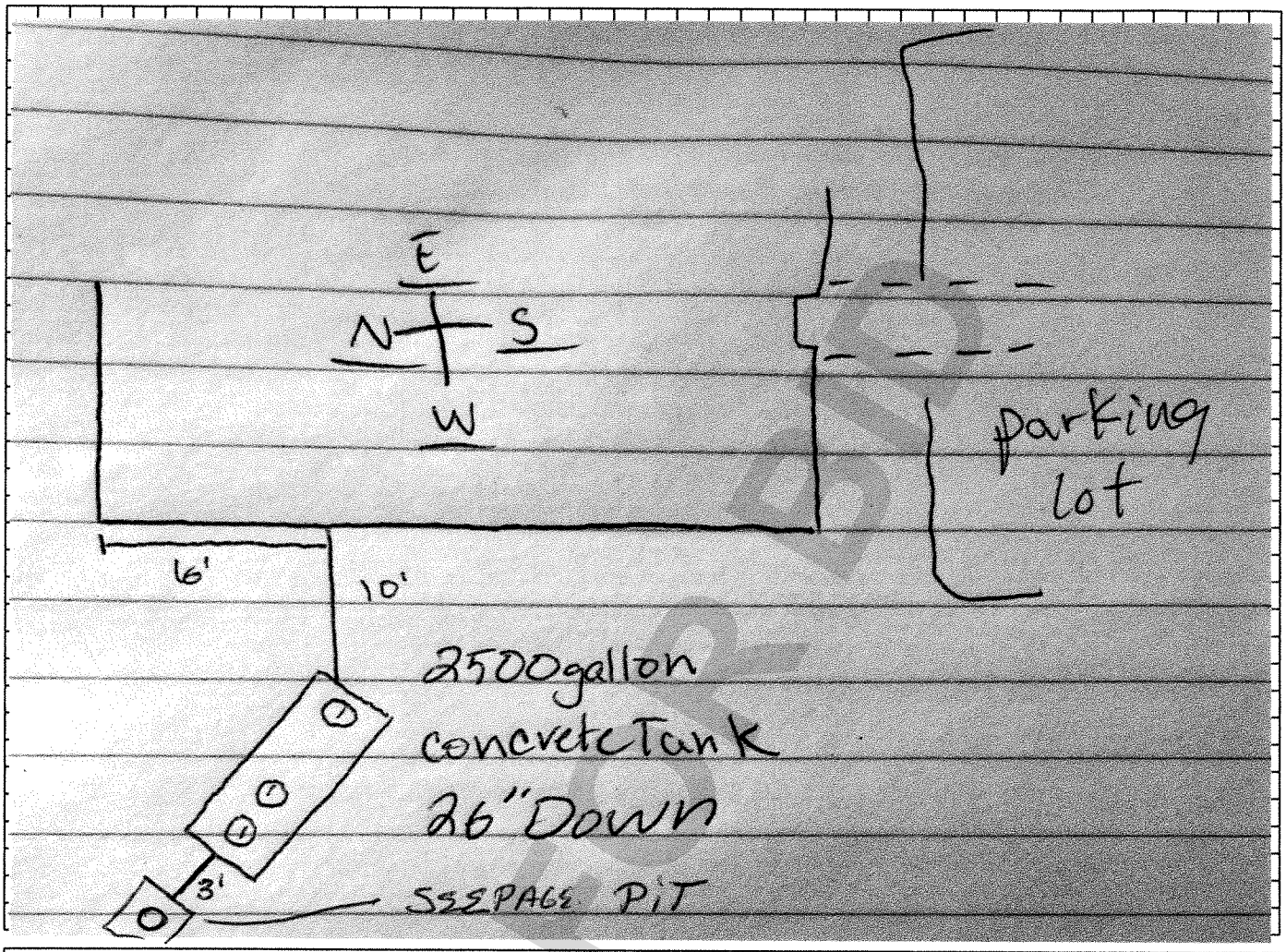
☑ **Electronic Signature Only**: By checking this box, I confirm I am submitting this application electronically and that the information on this form is true and correct. I also acknowledge that I have read, understand and accept any terms and conditions of this form.

Signature:	
Print Name:	Inspection Date:

NOT APPROVED

ONSITE WASTEWATER TREATMENT SYSTEM AREA INFORMATION (REQUIRED)

In the space provided, show the location of the tank and disposal area in relation to the buildings and other landmarks (i.e. wells, trees, shrubs, driveways, parking, paving, drainage courses, property lines, etc.). Indicate if only a cesspool is present.



It is the opinion of the certifier that this sewage disposal system:

☑ Meets current code.

☑ Can be expected to function satisfactorily and is not likely to create any unsanitary conditions.

OR

☐ **Cannot** be expected to function satisfactorily.

☑ **Electronic Signature Only**: By checking this box, I confirm I am submitting this application electronically and that the information on this form is true and correct. I also acknowledge that I have read, understand and accept any terms and conditions of this form.

Signature: Jason Mahaffey	Date: 07/20/23	Phone Number: 7603650861
Type of License: C42, C36	Reg. Number:	Expiration: 03/2024
Name and Address of Certifier: Jason Mahaffey, 7361 Wamego Trail , Yucca Valley Ca 92284		

For Office Use Only

PE:	Record ID:	FA Number:	
Reviewed By:	Date:	Fee:	Late Fee: ☐Y ☐N
Comments:			

NOT FOR BID