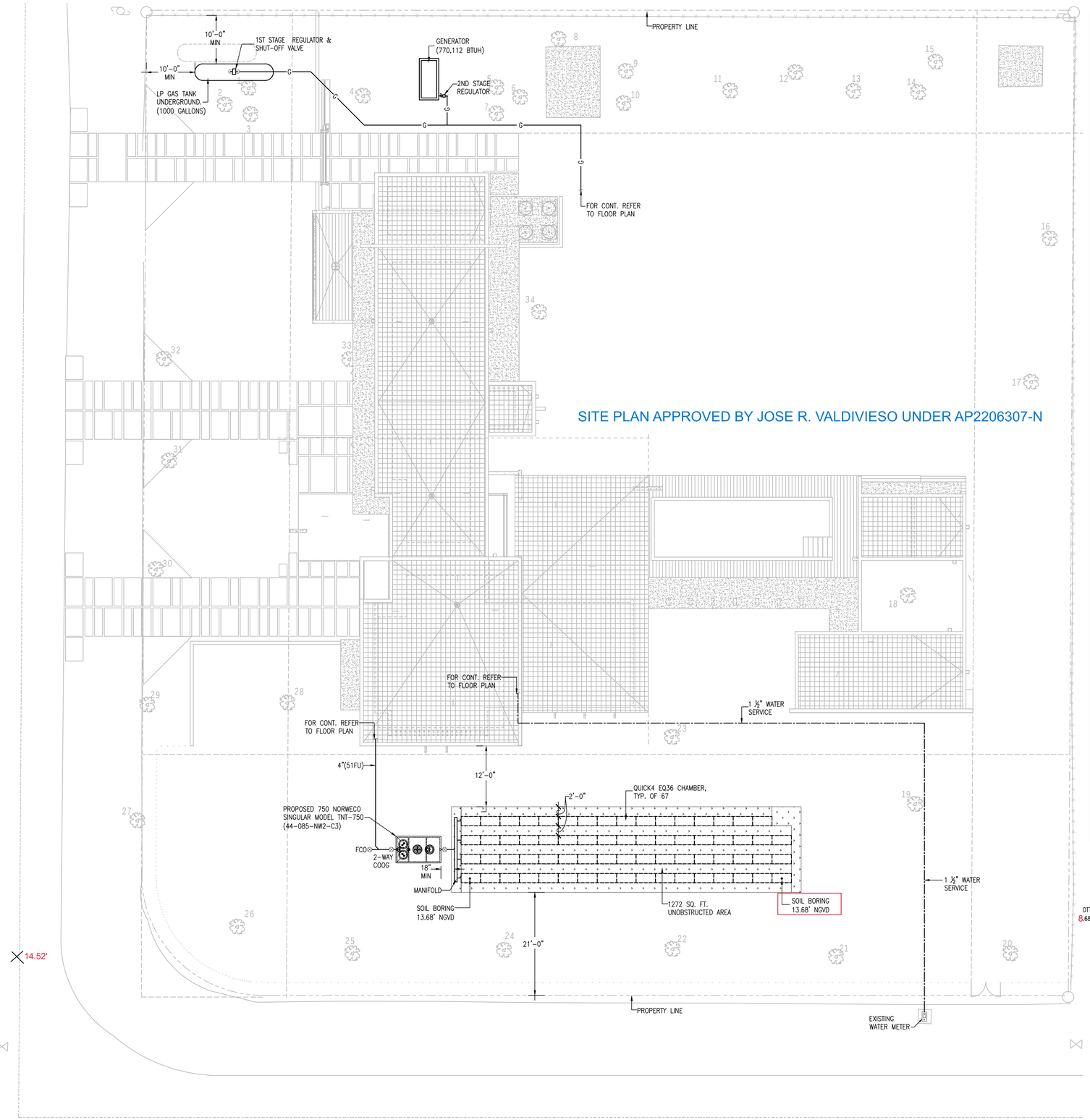
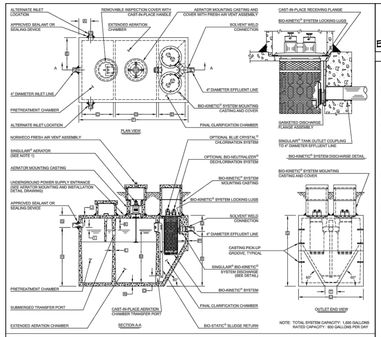
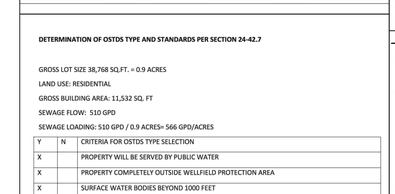


1 PLUMBING SITE PLAN

SCALE: 3/32" = 1'-0"

PROJECT NORTH





SEPTIC TANK NOTE:
THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND / OR ACROSS THE STREET THAT MAY BE AFFECTED BY THE NEW SEPTIC SYSTEM INSTALLATION.

CERTIFICATION OF DESIGN

I CERTIFIED THAT THE ENGINEERING FEATURES OF THIS PERFORMANCE-BASED TREATMENT SYSTEM HAVE BEEN DESIGNED OR SPECIFIED BY ME AND CONFORM TO ENGINEERING PRINCIPLES APPLICABLE TO SUCH PROJECTS. IN MY PROFESSIONAL JUDGMENT, THIS SYSTEM, WHEN PROPERLY CONSTRUCTED, OPERATED AND MAINTAINED, WILL ACHIEVE THE ESTABLISHED PERFORMANCE STANDARD AND COMPLY WITH ALL APPLICABLE STATUS OF THE STATE OF FLORIDA AND RULES OF THE DEPARTMENT.

THIS IS BASED ON AVERAGE TESTING PERFORMANCE DATA FOR COMPONENTS OF PERFORMANCE-BASED TREATMENT SYSTEMS (PBTS) BY E. ROEDER. FOR INNOVATIVE SYSTEM TESTING IN FLORIDA OR FROM TEST CENTERS FOR EVALUATION OF USE IN NUTRIENT AND FECAL COLIFORM REDUCING PBTS OR FROM TEST CENTERS FOR NSF-CERTIFICATION AS AEROBIC TREATMENT UNITS (ATUS). FLORIDA-APPROVED NSF 40-CERTIFIED MODELS FLORIDA-APPROVED NSF STANDARD 245

NITROGEN-REDUCING, CERTIFIED AEROBIC TREATMENT UNITS IN FLORIDA (RULE 62.6-6.012, FLORIDA ADMINISTRATIVE CODE) HOOT, INC FOR 500, 600 & 1000 GPD AVERAGE TOTAL NITROGEN REDUCTION COMPLETION REPORT 63%, TP=3.12 MG/L, CBOD5=2.3 MG/L, TSS=2.35 MG/L HOOT ANR-450 TN=85%, CBOD5=6 MG/L, TSS=4 MG/L NSF 245 TP TREATMENT ANTICIPATES SUFFICIENTLY LOW INFFLUENT CONCENTRATIONS AND IS EXPECTED TO MEET THE STABLISH PERFORMANCE STANDARD. TESTING FACILITY: CHELSEA, MI

THERE ARE NO PERTINENT FEATURES ON ADJACENT AND ACROSS THE STREET THAT

MAY AFFECT THE SYSTEM INSTALLATION

SECTION No. 1 COVER LETTER

Miami-Dade Department of Health
O.S.T.D.S. Program
Miami Dade County Building
11805 S.W. 26th St.
Miami, Fl 33175

ENGINEER OF RECORD: Jose M. Martinez
Florida State Licensed Engineer, Lic. No. 56018
Address: 10251 Sunset Drive,Suite 103,Miami,Florida 33173

REFERENCE:

13125 SW 63 AVE, PINECREST FL 33156

LEGAL DESCRIPTION: N/A

PROPERTY ID: 20-5013-005-0370

We are hereby requesting approval of a Performance-Base Treatment System (PBTS) designed for, and to be installed upon, the property being dealt with. The Engineer of record, the certified installment entity, (Sarima Batista, Master Septic Tank Contractor and/or personnel under her supervision), the Aerobic Treatment Unit providers and warrantors in the State of Florida (SB Engineering, Inc) and the primary manufacturer (NORWECO, INC.) will be involved in all necessary activities to warranty the complete installation as well as the maintenance thereof.

DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE 38,768 SQ.FT. = 0.9 ACRES

LAND USE: RESIDENTIAL

GROSS BUILDING AREA: 11,532 SQ. FT

SEWAGE FLOW: 510 GPD

SEWAGE LOADING: 510 GPD / 0.9 ACRES= 566 GPD/ACRES

Y	N	CRITERIA FOR OSTDS TYPE SELECTION
X		PROPERTY WILL BE SERVED BY PUBLIC WATER
X		PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
X		SURFACE WATER BODIES BEYOND 1000 FEET
	X	SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR/DUPLEX
		SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHERS USES
	X	SEWAGE LOADING LESS THAN 500 GPD/ACRE
		OTHER CONSIDERATIONS FOR OSTDS APPROVAL
X		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
X		SYSTEM WILL SERVE ONLY ONE LOT
X		PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVE BY A POTABLE WATER WELL

TYPE OF SYSTEM REQUIRED: TYPE 3 – ADVANCED SECONDARY TREATMENT STANDARDS

TOTAL NITROGEN TREATED BY: 750 GPD NORWECO SINGULAR MODEL TNT-750

TOTAL PHOSPHORUS TREATED BY: NO REDUCTION

FECAL COLIFORM TREATED BY: CHLORINATOR / DECHLORINATOR BIOKINETIC FILTER

SOURCE OF TREATMENT STANDARDS: FDEP TESTING PERFORMANCE DATA FOR PBTS

POLLUTANT	REQUIRED (mg/L) (Annual Average)	PROPOSED (mg/L) (Annual Average)
$CBOD_5$	10 mg/L	4 mg/L
TSS	10 mg/L	9 mg/L
TN	70% REDUCTION	68% - 12 mg/L
TP	1 mg/L	10 mg/L
FECAL COLIFORM (CFU/100ml)	200 cfu/ 100 ml	2 cfu/100 ml

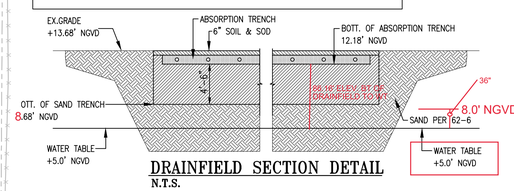
OSDTS CALCULATIONS PER CHAPTER 62-6 F.A.C.
NET LOT: 38,768 SQ.FT. = 0.9 AC
LAND USE: RESIDENTIAL
BUILDING AREA: 6,225 SQ. FT & 4 BEDROOMS
SEWAGE FLOW
MAXIMUM SEWAGE LOADING ALLOWANCE= 2,500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW: 0.9 AC X 2500 GPD/AC= 2,250 GPD
UNIT FLOW CRITERIA (PER RESIDENTIAL TABLE I) =4 # BEDROOMS, BUILDING AREA
SEWAGE FLOW PER UNIT=: 100 GPD per bedroom and/or 750 Sq.Ft. after 400 GPD for each additional bedroom or each additional 750 square feet of building area or fraction thereof in a dwelling unit, system sizing shall be increased by 60 gallons per dwelling unit.
TOTAL SEWAGE FLOW: 640 GPD
TREATMENT TANK AND DRAINFIELD
PROPOSED SYSTEM: 750 GPD NORWECO SINGULAIR MODEL TNT-750
MINIMUM REQUIRED TREATMENT CAPACITY: 640 GPD
DRAINFIELD CONFIGURATION: TRENCH
DRAINFIELD TYPE: STANDARD (No Mound)
DRAINFIELD MATERIAL: CHAMBER
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD: 0.80 gal/FT^2 Day
DRAINFIELD SIZE:
640 GPD/ 0.80= 800 SQ.FT. OF DRAINFIELD (1,200 SQ.FT. TOTAL UNOBSTRUCTED AREA)
SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS NGVD 29)
GRADE ELEVATION: 13.68' NGVD
SEASONAL HIGH-WATER TABLE ELEVATION= 5.0' NGVD
ELEVATION AT THE BOTTOM OF DRAINFIELD= 12.18' NGVD
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD=86.16 INCHES

WTI/MDR Engineered ATU
Operation, Maintenance, and Inspection Specifications

Operation:
Power supply to all electric components must remain constant at all times. It is not acceptable to disconnect power from the system at any time except under the direction of the maintenance entity or in case of emergency.
Homeowner is not to power off during extended absences from home, vacations or otherwise. Liquid waste treatment additives shall not be used
Maintenance and inspection 2/year contract
-Inspections: Effluent monitoring and preventative maintenance shall be performed as required by 62.6 Part I, FAC.
-First inspection: At system installation by engineer.
-Second: After system has been in operation a total of 6 months by maintenance entity.
-Thereafter: every 6 months, as part of maintenance entity inspection. Maintenance entity inspection to include:
Solids Check accumulation (expect pump-out every 3 to 5 years)
Blower: Confirm proper operation; clean air filter, as required.
Alarms: Trip all alarms manually to confirm effective operation
Outlet Filter: Operate filter plunger. Remove, clean, and reinstall as required.
Pump: Check operation by manually tripping float switch. Operate each pump manually at control panel
-Monitoring to be conducted semi quarterly
Monitoring / Sampling: At SAMPLING PORT
Pollutant to be check

o o ro d r o r or o r o
R d o
o or o

Contingency
1- At the high water level, the system alarm sound. The Owner must contact the Maintenance entity within 24 hours of alarm.
2- Maintenance entity personnel will inspect the system, and order a repair on the problem as necessary, within 36 hours as specified in 62-6.012 (4)(b)
3- Owner shall be have tanks pumped as required to prevent the creation of sanitary nuisance conditions until such time as repairs are effected which prevent sanitary nuisance conditions.



DRAINFIELD SECTION DETAIL

N.T.S.

GENERAL NOTES:

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SEPTIC TANK SYSTEM IN ACCORDANCE WITH THIS DRAWING, THE APPLICABLE EDITION OF CHAPTER 10D-6, FLORIDA ADMINISTRATIVE CODE, STANDARDS FOR ON SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
2. THE CONTRACTOR SHALL PAY ALL COST OF PERMIT, INSPECTIONS AND OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK. UPON FINAL INSPECTION, A CERTIFICATE FROM THE LOCAL STATE INSPECTION AUTHORITY SHALL BE FURNISHED TO THE OWNER.
3. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND MUST BE FURNISHED SO AS TO PREVENT ANY DELAY IN THE PROGRESS OF THE WORK.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL OF ALL EQUIPMENT, MATERIALS AND LAYOUTS PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL VERIFY ALL SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS, PIPING AND EQUIPMENT.
6. COORDINATE WORK WITH OTHER TRADES.
7. PROVIDE PIPING AS FOLLOWS:
   DRAIN FIELD: PE PLASTIC PERFORATED FIELD TUBING 4" DIAMETER.
   SANITARY PIPING & CONNECTIONS: SEE PLUMB. SPECS

DESIGN CRITERIA	
BUILDING TYPE:	SINGLE FAMILY RESIDENCE
AIR CONDITIONED AREA:	6,225 SQ.FT
ESTIMATED SEWAGE FLOW:	640 GPD AS PER TABLE I HRS
SEPTIC TANK REQUIRED:	1500 GAL. CAPACITY TABLE II HRS.
DRAIN FIELD AREA REQUIRED:	640/0.8 PERCOLATION RATE = 800 SQ.FT.
UNOBSTRUCTED AREA REQUIRED:	400 SQ. FT.

NOTE: SEPTIC TANK & DRAIN FIELD CAP. ARE BASED ON STATE OF FLORIDA DEPARTMENT OF HEALTH CHAPTER 62-6.

CALCULATIONS

	REQUIRED	PROVIDED
DRAINFIELD	(640 / 0.8)	(640 / 0.8)
CHAMBERS (QUICK4 EQ36 @ 12 SF EACH)	66.6 (800 / 12)	67
DRAINFIELD ACTIVE	800 SF	804 SF (12 X 67)
DRAINFIELD RESERVE	400 SF	402 SF

JMM
Consulting Engineers, LLC
10251 SUNSET DRIVE, SUITE 103, MIAMI, FL 33173
TEL (305) 255-1621 FAX (305) 271-0090
Certificate of Authorization #9692
Jose M. Martinez, Mech. P.E. #56018

To the best of my knowledge, the plans and specifications submitted hereweth comply with existing interpretations and provisions of the applicable building codes. This drawing is the sole property of JMM Consulting Engineers, LLC' and is an instrument of service not to be reproduced in whole or in part without express written permission of JMM Consulting Engineers, LLC

#26000522

MATEU
8887 SOUTHWEST 131 STREET
MIAMI, FLORIDA 33176
305233.3304 DESIGN@MATEU.CO
ARCHITECTURE INTERIOR DESIGN PLANNING
SEAL:
RONEY J. MATEU, FAIA
AR0008220

CONSULTANT
TRADE
ADDRESS
CITY & STATE

CONSULTANT
TRADE
ADDRESS
CITY & STATE

CONSULTANT
TRADE
ADDRESS
CITY & STATE

CONSULTANT
TRADE
ADDRESS
CITY & STATE

FERNANDA ROCA
2304
13125 SW 63 AVE, PINECREST FL 33156

CASA PA' FERNANDA

NEW SINGLE-FAMILY RES.
EU-1 RESIDENTIAL
SUBURBAN ESTATE

MATEU ARCHITECTURE INC
THIS DRAWING IS THE PROPERTY OF MATEU ARCHITECTURE INC. UNLESS OTHERWISE PROVIDED FOR BY CONTRACT. THE CONTENTS OF THIS DRAWING ARE CONFIDENTIAL AND SHALL NOT BE TRANSMITTED TO ANY PARTY EXCEPT AS AUTHORIZED BY THE ARCHITECT / ENGINEERS OF RECORD.
COPYRIGHT BY MATEU ARCHITECTURE INC.

PHASE
PERMIT SET

FILE NAME:

PROJECT NO:
2304

DRAWN BY:
JMM

CHECKED BY:
JMM

ISSUE DATE:
11/14/24

REVISIONS

SHEET TITLE
PLUMBING SITE PLAN

SHEET: OF:
P-100